

PG&E Service Area
Base Case
End-use Natural Gas Price Forecast Summary

1995 \$ per mcf

Year	Core			Noncore					System Average
	Res	Comm	Indust	Comm	Indust	TEOR	Cogen	EG	
1990	6.42	6.33	5.59	3.63	3.94	2.93	3.65	3.65	4.40
1991	6.44	6.44	5.64	2.99	3.14	3.47	3.15	3.15	4.25
1992	6.20	6.77	5.04	2.89	2.31	2.72	2.87	2.87	4.51
1993	5.92	6.28	4.97	3.10	2.30	2.43	3.10	3.10	3.69
1994	6.11	6.32	4.65	3.02	2.06	2.05	2.32	2.32	3.62
1995	6.35	6.41	4.67	2.52	1.85	1.52	2.24	2.24	3.57
1996	6.74	6.77	4.68	2.99	2.32	2.05	2.36	2.36	4.07
1997	7.13	7.12	4.69	3.45	2.80	2.58	2.66	2.66	4.27
1998	6.78	7.32	4.22	3.46	2.46	2.38	2.41	2.41	4.00
1999	6.34	6.33	3.47	3.13	2.16	2.08	2.10	2.10	3.57
2000	6.09	6.08	3.42	3.01	2.05	1.98	1.99	1.99	3.36
2001	5.91	5.90	3.41	3.02	2.08	2.02	2.02	2.02	3.33
2002	5.73	5.72	3.41	3.03	2.10	2.06	2.05	2.05	3.28
2003	5.71	5.70	3.42	3.06	2.14	2.10	2.09	2.09	3.27
2004	5.70	5.69	3.43	3.07	2.18	2.13	2.12	2.12	3.30
2005	5.67	5.67	3.44	3.10	2.21	2.17	2.16	2.16	3.31
2006	5.63	5.63	3.44	3.13	2.24	2.20	2.19	2.19	3.27
2007	5.63	5.62	3.45	3.14	2.27	2.24	2.22	2.22	3.30
2008	5.58	5.57	3.45	3.15	2.30	2.27	2.25	2.25	3.29
2009	5.59	5.59	3.47	3.18	2.33	2.30	2.28	2.28	3.30
2010	5.59	5.59	3.49	3.21	2.37	2.34	2.31	2.31	3.33
2011	5.59	5.58	3.52	3.24	2.41	2.38	2.35	2.35	3.36
2012	5.56	5.56	3.53	3.28	2.46	2.43	2.40	2.40	3.37
2013	5.56	5.56	3.54	3.32	2.50	2.47	2.45	2.45	3.41
2014	5.56	5.56	3.56	3.36	2.55	2.52	2.49	2.49	3.44
2015	5.55	5.55	3.58	3.39	2.59	2.56	2.54	2.54	3.46
2016	5.57	5.57	3.61	3.43	2.63	2.60	2.58	2.58	3.49
2017	5.57	5.58	3.63	3.46	2.68	2.64	2.62	2.62	3.52

Adopted March 18, 1998
by the California Energy Commission for the **1997 Fuels Report**.

The following notes provide basic assumption in preparing the natural gas price forecast.

Notes:

- 1990-1995 total prices are historical , obtained from QFER 7.
- 1997 margin based on PG&E Advice No. 1978-G, November 15, 1998.
- Remaining years margin based on PG&E Revised BCAP Application No. 97-03-002 and associated work papers (Aug. 18 and 27, 1997).
- Commodity: Nontransportation component of the California natural gas border price. Fuel costs are included.
- Transport: Weighted average interstate transport cost to deliver natural gas to the California border. Fuel is not included.
- ITCS An instate charge to recover interstate transition charges resultant from implementation of FERC Order 636.
- PG&E Margin: Includes base margin, access charges, portion of the backbone costs, local transmission and core storage.
- PG&E Backbone: Weighted average transmission charge to transport natural gas on Line 300, phased in Line 400/401, and incremental Line 401.
- Regulatory: Instate charge to recover customer class charges, including balancing accounts, social, environmental and other regulatory accounts.

**PG&E Service Area
Base Case
Residential Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodit	Transport	ITCS	Margin	Backbone	Regulatory	
y							
1990							6.42
1991							6.44
1992							6.20
1993							5.92
1994							6.11
1995							6.35
1996							6.74
1997	1.72	0.46	0.04	4.43	0.00	0.49	7.13
1998	1.47	0.46	0.04	3.95	0.12	0.74	6.78
1999	1.24	0.47	0.04	3.88	0.12	0.58	6.34
2000	1.27	0.47	0.00	3.81	0.12	0.43	6.09
2001	1.31	0.47	0.00	3.75	0.12	0.27	5.91
2002	1.34	0.47	0.00	3.70	0.12	0.12	5.73
2003	1.37	0.47	0.00	3.64	0.12	0.12	5.71
2004	1.39	0.46	0.00	3.61	0.12	0.12	5.70
2005	1.42	0.46	0.00	3.56	0.12	0.12	5.67
2006	1.44	0.46	0.00	3.49	0.12	0.12	5.63
2007	1.47	0.46	0.00	3.46	0.12	0.12	5.63
2008	1.49	0.46	0.00	3.38	0.12	0.12	5.58
2009	1.52	0.46	0.00	3.37	0.12	0.12	5.59
2010	1.56	0.46	0.00	3.33	0.12	0.12	5.59
2011	1.60	0.46	0.00	3.29	0.12	0.12	5.59
2012	1.63	0.46	0.00	3.24	0.12	0.12	5.56
2013	1.65	0.46	0.00	3.21	0.12	0.12	5.56
2014	1.68	0.47	0.00	3.17	0.12	0.12	5.56
2015	1.72	0.47	0.00	3.13	0.12	0.12	5.55
2016	1.76	0.47	0.00	3.11	0.12	0.12	5.57
2017	1.79	0.47	0.00	3.08	0.12	0.12	5.57

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PG&E Service Area
Base Case
Commercial Core Price Natural Gas Price Forecast

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodit y	Transport	ITCS	Margin	Backbone	Regulatory	
1990							6.33
1991							6.44
1992							6.77
1993							6.28
1994							6.32
1995							6.41
1996							6.77
1997	1.72	0.46	0.04	4.43	0.00	0.48	7.12
1998	1.47	0.46	0.04	4.43	0.12	0.80	7.32
1999	1.24	0.47	0.04	3.81	0.12	0.64	6.33
2000	1.27	0.47	0.00	3.74	0.12	0.49	6.08
2001	1.31	0.47	0.00	3.68	0.12	0.33	5.90
2002	1.34	0.47	0.00	3.63	0.12	0.18	5.72
2003	1.37	0.47	0.00	3.58	0.12	0.18	5.70
2004	1.39	0.46	0.00	3.54	0.12	0.18	5.69
2005	1.42	0.46	0.00	3.49	0.12	0.18	5.67
2006	1.44	0.46	0.00	3.43	0.12	0.18	5.63
2007	1.47	0.46	0.00	3.40	0.12	0.18	5.62
2008	1.49	0.46	0.00	3.32	0.12	0.18	5.57
2009	1.52	0.46	0.00	3.31	0.12	0.18	5.59
2010	1.56	0.46	0.00	3.27	0.12	0.18	5.59
2011	1.60	0.46	0.00	3.23	0.12	0.18	5.58
2012	1.63	0.46	0.00	3.18	0.12	0.18	5.56
2013	1.65	0.46	0.00	3.15	0.12	0.18	5.56
2014	1.68	0.47	0.00	3.12	0.12	0.18	5.56
2015	1.72	0.47	0.00	3.07	0.12	0.18	5.55
2016	1.76	0.47	0.00	3.05	0.12	0.18	5.57
2017	1.79	0.47	0.00	3.02	0.12	0.18	5.58

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PG&E Service Area
Base Case
Industrial Core Natural Gas Price Forecast

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges			Total	
	Commodit y	Transpor t	ITCS	Margin	Backbone Regulatory		
1990						5.59	
1991						5.64	
1992						5.04	
1993						4.97	
1994						4.65	
1995						4.67	
1996						4.68	
1997	1.72	0.46	0.04	2.40	0.00	0.08	4.69
1998	1.47	0.46	0.04	2.00	0.12	0.12	4.22
1999	1.24	0.47	0.04	1.48	0.12	0.11	3.47
2000	1.27	0.47	0.00	1.45	0.12	0.10	3.42
2001	1.31	0.47	0.00	1.43	0.12	0.09	3.41
2002	1.34	0.47	0.00	1.41	0.12	0.08	3.41
2003	1.37	0.47	0.00	1.39	0.12	0.08	3.42
2004	1.39	0.46	0.00	1.38	0.12	0.08	3.43
2005	1.42	0.46	0.00	1.36	0.12	0.08	3.44
2006	1.44	0.46	0.00	1.33	0.12	0.08	3.44
2007	1.47	0.46	0.00	1.32	0.12	0.08	3.45
2008	1.49	0.46	0.00	1.29	0.12	0.08	3.45
2009	1.52	0.46	0.00	1.29	0.12	0.08	3.47
2010	1.56	0.46	0.00	1.27	0.12	0.08	3.49
2011	1.60	0.46	0.00	1.26	0.12	0.08	3.52
2012	1.63	0.46	0.00	1.24	0.12	0.08	3.53
2013	1.65	0.46	0.00	1.23	0.12	0.08	3.54
2014	1.68	0.47	0.00	1.21	0.12	0.08	3.56
2015	1.72	0.47	0.00	1.20	0.12	0.08	3.58
2016	1.76	0.47	0.00	1.19	0.12	0.08	3.61
2017	1.79	0.47	0.00	1.18	0.12	0.08	3.63

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PG&E Service Area
Base Case
Commercial Noncore Natural Gas Price Forecast

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodit y	Transpor t	ITCS	Margin	Backbon e	Regulator y	
1990							3.63
1991							2.99
1992							2.89
1993							3.10
1994							3.02
1995							2.52
1996							2.99
1997	1.79	0.20	0.10	1.28	0.00	0.08	3.45
1998	1.53	0.27	0.14	1.20	0.18	0.14	3.46
1999	1.25	0.26	0.14	1.17	0.18	0.13	3.13
2000	1.29	0.27	0.00	1.16	0.18	0.12	3.01
2001	1.32	0.28	0.00	1.13	0.17	0.11	3.02
2002	1.36	0.29	0.00	1.12	0.17	0.10	3.03
2003	1.39	0.30	0.00	1.10	0.16	0.10	3.06
2004	1.41	0.33	0.00	1.08	0.16	0.10	3.07
2005	1.43	0.35	0.00	1.07	0.16	0.10	3.10
2006	1.45	0.36	0.00	1.06	0.15	0.10	3.13
2007	1.48	0.38	0.00	1.05	0.15	0.10	3.14
2008	1.50	0.39	0.00	1.03	0.14	0.10	3.15
2009	1.52	0.40	0.00	1.03	0.14	0.10	3.18
2010	1.60	0.37	0.00	1.01	0.13	0.10	3.21
2011	1.63	0.38	0.00	1.00	0.13	0.10	3.24
2012	1.66	0.41	0.00	0.99	0.13	0.10	3.28
2013	1.69	0.43	0.00	0.98	0.13	0.10	3.32
2014	1.72	0.44	0.00	0.97	0.13	0.10	3.36
2015	1.76	0.45	0.00	0.96	0.13	0.10	3.39
2016	1.79	0.46	0.00	0.95	0.13	0.10	3.43
2017	1.83	0.46	0.00	0.95	0.13	0.10	3.46

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**PG&E Service Area
Base Case
Industrial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulatory	
1990							3.94
1991							3.14
1992							2.31
1993							2.30
1994							2.06
1995							1.85
1996							2.32
1997	1.79	0.20	0.10	0.63	0.00	0.08	2.80
1998	1.53	0.27	0.14	0.22	0.18	0.12	2.46
1999	1.25	0.26	0.14	0.21	0.18	0.11	2.16
2000	1.29	0.27	0.00	0.21	0.18	0.10	2.05
2001	1.32	0.28	0.00	0.21	0.17	0.09	2.08
2002	1.36	0.29	0.00	0.20	0.17	0.08	2.10
2003	1.39	0.30	0.00	0.20	0.16	0.08	2.14
2004	1.41	0.33	0.00	0.20	0.16	0.08	2.18
2005	1.43	0.35	0.00	0.20	0.16	0.08	2.21
2006	1.45	0.36	0.00	0.19	0.15	0.08	2.24
2007	1.48	0.38	0.00	0.19	0.15	0.08	2.27
2008	1.50	0.39	0.00	0.19	0.14	0.08	2.30
2009	1.52	0.40	0.00	0.19	0.14	0.08	2.33
2010	1.60	0.37	0.00	0.19	0.13	0.08	2.37
2011	1.63	0.38	0.00	0.18	0.13	0.08	2.41
2012	1.66	0.41	0.00	0.18	0.13	0.08	2.46
2013	1.69	0.43	0.00	0.18	0.13	0.08	2.50
2014	1.72	0.44	0.00	0.18	0.13	0.08	2.55
2015	1.76	0.45	0.00	0.18	0.13	0.08	2.59
2016	1.79	0.46	0.00	0.17	0.13	0.08	2.63
2017	1.83	0.46	0.00	0.17	0.13	0.08	2.68

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**PG&E Service Area
Base Case
TEOR Noncore Natural Gas Price**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges			Total
	Commodit y	Transport	ITCS	Margin	Backbone	
1990						2.93
1991						3.47
1992						2.72
1993						2.43
1994						2.05
1995						1.52
1996						2.05
1997	1.79	0.20	0.10	0.49	0.00	2.58
1998	1.53	0.27	0.14	0.44	0.00	2.38
1999	1.25	0.26	0.14	0.43	0.00	2.08
2000	1.29	0.27	0.00	0.42	0.00	1.98
2001	1.32	0.28	0.00	0.42	0.00	2.02
2002	1.36	0.29	0.00	0.41	0.00	2.06
2003	1.39	0.30	0.00	0.40	0.00	2.10
2004	1.41	0.33	0.00	0.40	0.00	2.13
2005	1.43	0.35	0.00	0.39	0.00	2.17
2006	1.45	0.36	0.00	0.39	0.00	2.20
2007	1.48	0.38	0.00	0.38	0.00	2.24
2008	1.50	0.39	0.00	0.38	0.00	2.27
2009	1.52	0.40	0.00	0.38	0.00	2.30
2010	1.60	0.37	0.00	0.37	0.00	2.34
2011	1.63	0.38	0.00	0.37	0.00	2.38
2012	1.66	0.41	0.00	0.36	0.00	2.43
2013	1.69	0.43	0.00	0.36	0.00	2.47
2014	1.72	0.44	0.00	0.36	0.00	2.52
2015	1.76	0.45	0.00	0.35	0.00	2.56
2016	1.79	0.46	0.00	0.35	0.00	2.60
2017	1.83	0.46	0.00	0.35	0.00	2.64

Adopted March 18, 1998
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PG&E Service Area
Base Case
Cogen Noncore Natural Gas Price

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulatory	
1990							3.65
1991							3.15
1992							2.87
1993							3.10
1994							2.32
1995							2.24
1996							2.36
1997	1.82	0.22	0.10	0.49	0.00	0.03	2.66
1998	1.55	0.28	0.14	0.20	0.18	0.07	2.41
1999	1.26	0.27	0.14	0.19	0.18	0.06	2.10
2000	1.30	0.28	0.00	0.19	0.17	0.06	1.99
2001	1.33	0.29	0.00	0.18	0.17	0.05	2.02
2002	1.37	0.29	0.00	0.18	0.17	0.04	2.05
2003	1.40	0.31	0.00	0.18	0.16	0.04	2.09
2004	1.42	0.33	0.00	0.18	0.16	0.04	2.12
2005	1.44	0.35	0.00	0.17	0.16	0.04	2.16
2006	1.46	0.36	0.00	0.17	0.15	0.04	2.19
2007	1.49	0.37	0.00	0.17	0.15	0.04	2.22
2008	1.51	0.38	0.00	0.17	0.14	0.04	2.25
2009	1.54	0.40	0.00	0.17	0.14	0.04	2.28
2010	1.60	0.37	0.00	0.16	0.13	0.04	2.31
2011	1.64	0.38	0.00	0.16	0.13	0.04	2.35
2012	1.67	0.40	0.00	0.16	0.13	0.04	2.40
2013	1.70	0.42	0.00	0.16	0.13	0.04	2.45
2014	1.73	0.44	0.00	0.16	0.13	0.04	2.49
2015	1.77	0.44	0.00	0.16	0.13	0.04	2.54
2016	1.80	0.45	0.00	0.15	0.13	0.04	2.58
2017	1.84	0.46	0.00	0.15	0.13	0.04	2.62

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**PG&E Service
Base Case
Electricity Generation Noncore Price**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulatory	
1990							3.65
1991							3.15
1992							2.87
1993							3.10
1994							2.32
1995							2.24
1996							2.36
1997	1.82	0.22	0.10	0.49	0.00	0.03	2.66
1998	1.55	0.28	0.14	0.20	0.18	0.07	2.41
1999	1.26	0.27	0.14	0.19	0.18	0.06	2.10
2000	1.30	0.28	0.00	0.19	0.17	0.06	1.99
2001	1.33	0.29	0.00	0.18	0.17	0.05	2.02
2002	1.37	0.29	0.00	0.18	0.17	0.04	2.05
2003	1.40	0.31	0.00	0.18	0.16	0.04	2.09
2004	1.42	0.33	0.00	0.18	0.16	0.04	2.12
2005	1.44	0.35	0.00	0.17	0.16	0.04	2.16
2006	1.46	0.36	0.00	0.17	0.15	0.04	2.19
2007	1.49	0.37	0.00	0.17	0.15	0.04	2.22
2008	1.51	0.38	0.00	0.17	0.14	0.04	2.25
2009	1.54	0.40	0.00	0.17	0.14	0.04	2.28
2010	1.60	0.37	0.00	0.16	0.13	0.04	2.31
2011	1.64	0.38	0.00	0.16	0.13	0.04	2.35
2012	1.67	0.40	0.00	0.16	0.13	0.04	2.40
2013	1.70	0.42	0.00	0.16	0.13	0.04	2.45
2014	1.73	0.44	0.00	0.16	0.13	0.04	2.49
2015	1.77	0.44	0.00	0.16	0.13	0.04	2.54
2016	1.80	0.45	0.00	0.15	0.13	0.04	2.58
2017	1.84	0.46	0.00	0.15	0.13	0.04	2.62

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**PG&E Service
Base Case
Electricity Generation Gas Price Forecast**

1995 \$ per mmBtu

Year	Commodity	Electricity Generation		Total Price
		Transportation	Interstate Intrastat	
		e		
1990				3.55
1991				3.08
1992				2.80
1993				3.02
1994				2.26
1995				2.21
1996				2.32
1997	1.79	0.21	0.61	2.61
1998	1.52	0.27	0.57	2.36
1999	1.24	0.26	0.56	2.06
2000	1.27	0.27	0.41	1.95
2001	1.31	0.28	0.39	1.98
2002	1.34	0.29	0.38	2.01
2003	1.37	0.30	0.38	2.05
2004	1.39	0.32	0.37	2.08
2005	1.41	0.34	0.36	2.12
2006	1.43	0.35	0.36	2.15
2007	1.46	0.37	0.35	2.17
2008	1.48	0.38	0.34	2.20
2009	1.51	0.39	0.34	2.23
2010	1.57	0.36	0.33	2.27
2011	1.61	0.37	0.33	2.31
2012	1.64	0.39	0.32	2.35
2013	1.67	0.41	0.32	2.40
2014	1.70	0.43	0.32	2.45
2015	1.73	0.43	0.32	2.49

2016	1.77	0.44	0.32	2.53
2017	1.80	0.45	0.32	2.57

Adopted March 18, 1998
 by the California Energy Commission for the **1997 Fuels Report**.

**PG&E Service Area
 Base Case
 Electricity Generation Gas Price Forecast**

Nominal \$ per mmBtu

Year	Commodity	Electricity Generation		Total Price	Cogen Gas Price
		Transportation	Interstate		
1990				3.09	3.09
1991				2.79	2.79
1992				2.61	2.61
1993				2.88	2.88
1994				2.20	2.20
1995				2.21	2.21
1996				2.37	2.37
1997	1.86	0.22	0.63	2.71	2.71
1998	1.61	0.29	0.61	2.51	2.51
1999	1.35	0.29	0.61	2.24	2.24
2000	1.42	0.30	0.46	2.19	2.19
2001	1.51	0.32	0.45	2.28	2.28
2002	1.59	0.34	0.45	2.38	2.38
2003	1.67	0.37	0.46	2.50	2.50
2004	1.75	0.40	0.46	2.62	2.62
2005	1.84	0.44	0.47	2.75	2.75
2006	1.93	0.48	0.48	2.89	2.89
2007	2.03	0.51	0.49	3.03	3.03
2008	2.14	0.54	0.49	3.18	3.18
2009	2.25	0.58	0.50	3.34	3.34
2010	2.44	0.56	0.51	3.51	3.51
2011	2.58	0.60	0.52	3.70	3.70
2012	2.72	0.65	0.54	3.91	3.91
2013	2.87	0.71	0.56	4.13	4.13
2014	3.02	0.76	0.57	4.36	4.36
2015	3.20	0.80	0.59	4.59	4.59

2016	3.38	0.84	0.61	4.83	4.83
2017	3.57	0.89	0.63	5.09	5.09

Adopted March 18, 1998
by the California Energy Commission for the ***1997 Fuels Report***.

PG&E Service Area
High Price Case
End-use Natural Gas Price Forecast Summary

1995 \$ per mcf

Year	Core			Noncore					System Average
	Res	Comm	Indust	Comm	Indust	TEOR	Cogen	EG	
1990	6.42	6.33	5.59	3.63	3.94	2.93	3.65	3.65	4.40
1991	6.44	6.44	5.64	2.99	3.14	3.47	3.15	3.15	4.25
1992	6.20	6.77	5.04	2.89	2.31	2.72	2.87	2.87	4.51
1993	5.92	6.28	4.97	3.10	2.30	2.43	3.10	3.10	3.69
1994	6.11	6.32	4.65	3.02	2.06	2.05	2.32	2.32	3.62
1995	6.35	6.41	4.67	2.52	1.85	1.52	2.24	2.24	3.57
1996	6.73	6.76	4.68	2.99	2.33	2.06	2.36	2.36	4.07
1997	7.12	7.11	4.68	3.47	2.82	2.60	2.68	2.68	4.28
1998	6.95	7.52	4.42	3.67	2.68	2.60	2.62	2.62	4.15
1999	6.69	6.68	3.85	3.52	2.57	2.49	2.51	2.51	3.86
2000	6.46	6.45	3.81	3.42	2.48	2.41	2.42	2.42	3.68
2001	6.30	6.29	3.83	3.44	2.52	2.47	2.47	2.47	3.67
2002	6.14	6.13	3.85	3.47	2.57	2.52	2.52	2.52	3.64
2003	6.13	6.12	3.87	3.51	2.62	2.57	2.57	2.57	3.65
2004	6.14	6.13	3.91	3.55	2.67	2.63	2.62	2.62	3.70
2005	6.14	6.14	3.94	3.59	2.73	2.68	2.68	2.68	3.73
2006	6.12	6.12	3.96	3.65	2.79	2.75	2.73	2.73	3.73
2007	6.14	6.13	3.99	3.70	2.84	2.81	2.79	2.79	3.79
2008	6.11	6.11	4.01	3.73	2.89	2.86	2.84	2.84	3.80
2009	6.15	6.14	4.05	3.79	2.95	2.92	2.90	2.90	3.84
2010	6.17	6.17	4.10	3.83	3.00	2.98	2.95	2.95	3.90
2011	6.20	6.20	4.15	3.88	3.06	3.03	3.01	3.01	3.96
2012	6.22	6.22	4.19	3.94	3.12	3.09	3.07	3.07	3.99
2013	6.25	6.25	4.25	3.99	3.18	3.15	3.13	3.13	4.06
2014	6.28	6.28	4.30	4.04	3.24	3.21	3.19	3.19	4.11
2015	6.30	6.31	4.34	4.09	3.30	3.26	3.25	3.25	4.16
2016	6.35	6.35	4.39	4.15	3.35	3.32	3.30	3.30	4.22
2017	6.38	6.38	4.44	4.20	3.41	3.38	3.36	3.36	4.28

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

The High Price Case was prepared by the California Energy Commission for the ***1997 Fuels Report*** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

The following notes provide basic assumption in preparing the natural gas price forecast.

Notes:

- 1990-1995 total prices are historical , obtained from QFER 7.
- 1997 margin based on PG&E Advice No. 1978-G, November 15, 1998.
- Remaining years margin based on PG&E Revised BCAP Application No. 97-03-002 and associated work papers (Aug. 18 and 27, 1997).
- Commodity: Nontransportation component of the California natural gas border price. Fuel costs are included.
- Transport: Weighted average interstate transport cost to deliver natural gas to the California border. Fuel is not included.
- ITCS An instate charge to recover interstate transition charges resultant from implementation of FERC Order 636.
- PG&E Margin: Includes base margin, access charges, portion of the backbone costs, local transmission and core storage.
- PG&E Backbone: Weighted average transmission charge to transport natural gas on Line 300, phased in Line 400/401, and incremental Line 401.
- Regulatory: Instate charge to recover customer class charges, including balancing accounts, social, environmental and other regulatory accounts.

PG&E Service Area
High Price Case
Resisential Core Natural Gas Price Forecast

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodit y	Transport	ITCS	Margin	Backbone	Regulatory	
1990							6.42
1991							6.44
1992							6.20
1993							5.92
1994							6.11
1995							6.35
1996							6.73
1997	1.71	0.46	0.04	4.43	0.00	0.49	7.12
1998	1.66	0.46	0.04	3.92	0.12	0.74	6.95
1999	1.64	0.47	0.04	3.83	0.12	0.58	6.69
2000	1.69	0.47	0.00	3.76	0.12	0.43	6.46
2001	1.74	0.47	0.00	3.70	0.12	0.27	6.30
2002	1.79	0.47	0.00	3.64	0.12	0.12	6.14
2003	1.84	0.47	0.00	3.59	0.12	0.12	6.13
2004	1.88	0.47	0.00	3.55	0.12	0.12	6.14
2005	1.93	0.47	0.00	3.51	0.12	0.12	6.14
2006	1.98	0.47	0.00	3.44	0.12	0.12	6.12
2007	2.02	0.47	0.00	3.42	0.12	0.12	6.14
2008	2.07	0.47	0.00	3.34	0.12	0.12	6.11
2009	2.12	0.47	0.00	3.33	0.12	0.12	6.15
2010	2.18	0.47	0.00	3.29	0.12	0.12	6.17
2011	2.24	0.47	0.00	3.26	0.12	0.12	6.20
2012	2.30	0.47	0.00	3.21	0.12	0.12	6.22
2013	2.36	0.47	0.00	3.19	0.12	0.12	6.25
2014	2.42	0.47	0.00	3.16	0.12	0.12	6.28
2015	2.48	0.47	0.00	3.12	0.12	0.12	6.30
2016	2.53	0.47	0.00	3.11	0.12	0.12	6.35
2017	2.59	0.47	0.00	3.08	0.12	0.12	6.38

The High Price Case was prepared by the California Energy Commission for the *1997 Fuels Report* to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
High Price Case
Commercial Core Natural Gas Price Forecast by Sector**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total y
	Commodity	Transport	ITCS	Margin	Backbone	Regulator	
1990							6.33
1991							6.44
1992							6.77
1993							6.28
1994							6.32
1995							6.41
1996							6.76
1997	1.71	0.46	0.04	4.43	0.00	0.48	7.11
1998	1.66	0.46	0.04	4.43	0.12	0.80	7.52
1999	1.64	0.47	0.04	3.76	0.12	0.64	6.68
2000	1.69	0.47	0.00	3.69	0.12	0.49	6.45
2001	1.74	0.47	0.00	3.63	0.12	0.33	6.29
2002	1.79	0.47	0.00	3.58	0.12	0.18	6.13
2003	1.84	0.47	0.00	3.52	0.12	0.18	6.12
2004	1.88	0.47	0.00	3.49	0.12	0.18	6.13
2005	1.93	0.47	0.00	3.44	0.12	0.18	6.14
2006	1.98	0.47	0.00	3.38	0.12	0.18	6.12
2007	2.02	0.47	0.00	3.36	0.12	0.18	6.13
2008	2.07	0.47	0.00	3.28	0.12	0.18	6.11
2009	2.12	0.47	0.00	3.27	0.12	0.18	6.14
2010	2.18	0.47	0.00	3.23	0.12	0.18	6.17
2011	2.24	0.47	0.00	3.20	0.12	0.18	6.20
2012	2.30	0.47	0.00	3.15	0.12	0.18	6.22
2013	2.36	0.47	0.00	3.13	0.12	0.18	6.25
2014	2.42	0.47	0.00	3.10	0.12	0.18	6.28
2015	2.48	0.47	0.00	3.06	0.12	0.18	6.31
2016	2.53	0.47	0.00	3.05	0.12	0.18	6.35
2017	2.59	0.47	0.00	3.03	0.12	0.18	6.38

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
High Price Case
Industrial Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulator	
	y					y	
1990							5.59
1991							5.64
1992							5.04
1993							4.97
1994							4.65
1995							4.67
1996							4.68
1997	1.71	0.46	0.04	2.40	0.00	0.08	4.68
1998	1.66	0.46	0.04	2.00	0.12	0.12	4.42
1999	1.64	0.47	0.04	1.46	0.12	0.11	3.85
2000	1.69	0.47	0.00	1.43	0.12	0.10	3.81
2001	1.74	0.47	0.00	1.41	0.12	0.09	3.83
2002	1.79	0.47	0.00	1.39	0.12	0.08	3.85
2003	1.84	0.47	0.00	1.37	0.12	0.08	3.87
2004	1.88	0.47	0.00	1.36	0.12	0.08	3.91
2005	1.93	0.47	0.00	1.34	0.12	0.08	3.94
2006	1.98	0.47	0.00	1.31	0.12	0.08	3.96
2007	2.02	0.47	0.00	1.30	0.12	0.08	3.99
2008	2.07	0.47	0.00	1.28	0.12	0.08	4.01
2009	2.12	0.47	0.00	1.27	0.12	0.08	4.05
2010	2.18	0.47	0.00	1.26	0.12	0.08	4.10
2011	2.24	0.47	0.00	1.24	0.12	0.08	4.15
2012	2.30	0.47	0.00	1.23	0.12	0.08	4.19
2013	2.36	0.47	0.00	1.22	0.12	0.08	4.25
2014	2.42	0.47	0.00	1.20	0.12	0.08	4.30
2015	2.48	0.47	0.00	1.19	0.12	0.08	4.34

2016	2.53	0.47	0.00	1.19	0.12	0.08	4.39
2017	2.59	0.47	0.00	1.18	0.12	0.08	4.44

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
High Price Case
Commercial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulator	
y	t					y	
1990							3.63
1991							2.99
1992							2.89
1993							3.10
1994							3.02
1995							2.52
1996							2.99
1997	1.79	0.22	0.10	1.28	0.00	0.08	3.47
1998	1.72	0.30	0.14	1.19	0.18	0.14	3.67
1999	1.62	0.31	0.14	1.15	0.18	0.13	3.52
2000	1.67	0.33	0.00	1.13	0.17	0.12	3.42
2001	1.71	0.34	0.00	1.11	0.17	0.11	3.44
2002	1.76	0.36	0.00	1.09	0.17	0.10	3.47
2003	1.80	0.38	0.00	1.07	0.16	0.10	3.51
2004	1.84	0.40	0.00	1.05	0.16	0.10	3.55
2005	1.89	0.41	0.00	1.04	0.15	0.10	3.59
2006	1.93	0.43	0.00	1.04	0.15	0.10	3.65
2007	1.97	0.46	0.00	1.02	0.14	0.10	3.70
2008	2.02	0.47	0.00	1.00	0.14	0.10	3.73
2009	2.06	0.49	0.00	1.01	0.13	0.10	3.79
2010	2.17	0.45	0.00	0.99	0.13	0.10	3.83
2011	2.22	0.45	0.00	0.99	0.13	0.10	3.88
2012	2.28	0.46	0.00	0.98	0.13	0.10	3.94
2013	2.33	0.46	0.00	0.97	0.13	0.10	3.99

2014	2.39	0.46	0.00	0.96	0.13	0.10	4.04
2015	2.44	0.47	0.00	0.96	0.13	0.10	4.09
2016	2.49	0.48	0.00	0.96	0.13	0.10	4.15
2017	2.54	0.49	0.00	0.95	0.13	0.10	4.20

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
High Price Case
Industrial NonCore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulatory	
1990							3.94
1991							3.14
1992							2.31
1993							2.30
1994							2.06
1995							1.85
1996							2.33
1997	1.79	0.22	0.10	0.63	0.00	0.08	2.82
1998	1.72	0.30	0.14	0.22	0.18	0.12	2.68
1999	1.62	0.31	0.14	0.21	0.18	0.11	2.57
2000	1.67	0.33	0.00	0.21	0.17	0.10	2.48
2001	1.71	0.34	0.00	0.20	0.17	0.09	2.52
2002	1.76	0.36	0.00	0.20	0.17	0.08	2.57
2003	1.80	0.38	0.00	0.20	0.16	0.08	2.62
2004	1.84	0.40	0.00	0.19	0.16	0.08	2.67
2005	1.89	0.41	0.00	0.19	0.15	0.08	2.73
2006	1.93	0.43	0.00	0.19	0.15	0.08	2.79
2007	1.97	0.46	0.00	0.19	0.14	0.08	2.84
2008	2.02	0.47	0.00	0.18	0.14	0.08	2.89
2009	2.06	0.49	0.00	0.18	0.13	0.08	2.95
2010	2.17	0.45	0.00	0.18	0.13	0.08	3.00
2011	2.22	0.45	0.00	0.18	0.13	0.08	3.06

2012	2.28	0.46	0.00	0.18	0.13	0.08	3.12
2013	2.33	0.46	0.00	0.18	0.13	0.08	3.18
2014	2.39	0.46	0.00	0.18	0.13	0.08	3.24
2015	2.44	0.47	0.00	0.18	0.13	0.08	3.30
2016	2.49	0.48	0.00	0.17	0.13	0.08	3.35
2017	2.54	0.49	0.00	0.17	0.13	0.08	3.41

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
High Price Case
TEOR Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulatory	
		y					
1990							2.93
1991							3.47
1992							2.72
1993							2.43
1994							2.05
1995							1.52
1996							2.06
1997	1.79	0.22	0.10	0.49	0.00	0.00	2.60
1998	1.72	0.30	0.14	0.44	0.00	0.00	2.60
1999	1.62	0.31	0.14	0.42	0.00	0.00	2.49
2000	1.67	0.33	0.00	0.42	0.00	0.00	2.41
2001	1.71	0.34	0.00	0.41	0.00	0.00	2.47
2002	1.76	0.36	0.00	0.40	0.00	0.00	2.52
2003	1.80	0.38	0.00	0.39	0.00	0.00	2.57
2004	1.84	0.40	0.00	0.39	0.00	0.00	2.63
2005	1.89	0.41	0.00	0.38	0.00	0.00	2.68
2006	1.93	0.43	0.00	0.38	0.00	0.00	2.75
2007	1.97	0.46	0.00	0.38	0.00	0.00	2.81
2008	2.02	0.47	0.00	0.37	0.00	0.00	2.86
2009	2.06	0.49	0.00	0.37	0.00	0.00	2.92

2010	2.17	0.45	0.00	0.37	0.00	0.00	2.98
2011	2.22	0.45	0.00	0.36	0.00	0.00	3.03
2012	2.28	0.46	0.00	0.36	0.00	0.00	3.09
2013	2.33	0.46	0.00	0.36	0.00	0.00	3.15
2014	2.39	0.46	0.00	0.35	0.00	0.00	3.21
2015	2.44	0.47	0.00	0.35	0.00	0.00	3.26
2016	2.49	0.48	0.00	0.35	0.00	0.00	3.32
2017	2.54	0.49	0.00	0.35	0.00	0.00	3.38

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
High Price Case
Cogen Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulatory	
1990							3.65
1991							3.15
1992							2.87
1993							3.10
1994							2.32
1995							2.24
1996							2.36
1997	1.82	0.24	0.10	0.49	0.00	0.03	2.68
1998	1.74	0.31	0.14	0.19	0.18	0.07	2.62
1999	1.64	0.31	0.14	0.19	0.17	0.06	2.51
2000	1.69	0.33	0.00	0.18	0.17	0.06	2.42
2001	1.73	0.34	0.00	0.18	0.17	0.05	2.47
2002	1.78	0.36	0.00	0.18	0.16	0.04	2.52
2003	1.82	0.37	0.00	0.17	0.16	0.04	2.57
2004	1.86	0.39	0.00	0.17	0.16	0.04	2.62
2005	1.91	0.41	0.00	0.17	0.15	0.04	2.68
2006	1.95	0.43	0.00	0.17	0.15	0.04	2.73
2007	1.99	0.45	0.00	0.17	0.14	0.04	2.79
2008	2.04	0.46	0.00	0.16	0.14	0.04	2.84

2009	2.08	0.48	0.00	0.16	0.13	0.04	2.90
2010	2.18	0.44	0.00	0.16	0.13	0.04	2.95
2011	2.24	0.44	0.00	0.16	0.13	0.04	3.01
2012	2.30	0.45	0.00	0.16	0.13	0.04	3.07
2013	2.35	0.45	0.00	0.16	0.13	0.04	3.13
2014	2.41	0.46	0.00	0.16	0.13	0.04	3.19
2015	2.46	0.46	0.00	0.16	0.13	0.04	3.25
2016	2.51	0.47	0.00	0.16	0.13	0.04	3.30
2017	2.56	0.48	0.00	0.15	0.13	0.04	3.36

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
High Price Case
Electricity Generation Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges			Total	
	Commodity Transport	ITCS	Margin	Backbone	Regulator		
1990						3.65	
1991						3.15	
1992						2.87	
1993						3.10	
1994						2.32	
1995						2.24	
1996						2.36	
1997	1.82	0.24	0.10	0.49	0.00	0.03	2.68
1998	1.74	0.31	0.14	0.19	0.18	0.07	2.62
1999	1.64	0.31	0.14	0.19	0.17	0.06	2.51
2000	1.69	0.33	0.00	0.18	0.17	0.06	2.42
2001	1.73	0.34	0.00	0.18	0.17	0.05	2.47
2002	1.78	0.36	0.00	0.18	0.16	0.04	2.52
2003	1.82	0.37	0.00	0.17	0.16	0.04	2.57
2004	1.86	0.39	0.00	0.17	0.16	0.04	2.62
2005	1.91	0.41	0.00	0.17	0.15	0.04	2.68
2006	1.95	0.43	0.00	0.17	0.15	0.04	2.73

2007	1.99	0.45	0.00	0.17	0.14	0.04	2.79
2008	2.04	0.46	0.00	0.16	0.14	0.04	2.84
2009	2.08	0.48	0.00	0.16	0.13	0.04	2.90
2010	2.18	0.44	0.00	0.16	0.13	0.04	2.95
2011	2.24	0.44	0.00	0.16	0.13	0.04	3.01
2012	2.30	0.45	0.00	0.16	0.13	0.04	3.07
2013	2.35	0.45	0.00	0.16	0.13	0.04	3.13
2014	2.41	0.46	0.00	0.16	0.13	0.04	3.19
2015	2.46	0.46	0.00	0.16	0.13	0.04	3.25
2016	2.51	0.47	0.00	0.16	0.13	0.04	3.30
2017	2.56	0.48	0.00	0.15	0.13	0.04	3.36

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
High Price Case
Electricity Generation Gas Price Forecast**

1995 \$ per mmBtu

Year	Commodity	Utility Electric Generation		Total Price
		Transportation	Interstate	
1990				3.55
1991				3.08
1992				2.80
1993				3.02
1994				2.26
1995				2.21
1996				2.32
1997	1.78	0.23	0.61	2.63
1998	1.70	0.30	0.57	2.57
1999	1.61	0.31	0.55	2.46
2000	1.65	0.32	0.40	2.38
2001	1.70	0.34	0.39	2.42
2002	1.75	0.35	0.37	2.47
2003	1.79	0.37	0.37	2.52
2004	1.83	0.38	0.36	2.57

2005	1.87	0.40	0.36	2.63
2006	1.91	0.42	0.35	2.68
2007	1.95	0.44	0.34	2.74
2008	2.00	0.45	0.34	2.79
2009	2.04	0.47	0.33	2.84
2010	2.14	0.43	0.32	2.89
2011	2.20	0.43	0.32	2.95
2012	2.25	0.44	0.32	3.01
2013	2.31	0.44	0.32	3.07
2014	2.36	0.45	0.32	3.13
2015	2.41	0.45	0.32	3.18
2016	2.46	0.46	0.32	3.24
2017	2.51	0.47	0.32	3.29

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
High Price Case
Electricity Generation Gas Price Forecast**

Nominal \$ per mmBtu

Year	Commodity	Utility Electric Generation		Total Price	Cogen Gas Price
		Transportation	Interstate Intrastate		
1990				3.09	3.09
1991				2.79	2.79
1992				2.61	2.61
1993				2.88	2.88
1994				2.20	2.20
1995				2.21	2.21
1996				2.37	2.37
1997	1.85	0.24	0.63	2.73	2.73
1998	1.81	0.32	0.60	2.74	2.74
1999	1.75	0.33	0.60	2.68	2.68
2000	1.85	0.36	0.45	2.66	2.66
2001	1.96	0.39	0.45	2.79	2.79
2002	2.07	0.41	0.44	2.93	2.93
2003	2.18	0.45	0.45	3.08	3.08

2004	2.30	0.48	0.46	3.24	3.24
2005	2.44	0.52	0.46	3.42	3.42
2006	2.57	0.56	0.47	3.61	3.61
2007	2.72	0.61	0.48	3.82	3.82
2008	2.88	0.65	0.48	4.02	4.02
2009	3.05	0.70	0.49	4.25	4.25
2010	3.31	0.67	0.50	4.48	4.48
2011	3.52	0.70	0.52	4.73	4.73
2012	3.74	0.73	0.53	5.00	5.00
2013	3.97	0.76	0.55	5.28	5.28
2014	4.21	0.80	0.57	5.57	5.57
2015	4.45	0.84	0.58	5.88	5.88
2016	4.71	0.89	0.61	6.20	6.20
2017	4.97	0.93	0.63	6.53	6.53

The High Price Case was prepared by the California Energy Commission for the ***1997 Fuels Report*** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

PG&E Service Area
Low Price Case
End-use Natural Gas Price Forecast Summary

1995 \$ per mcf

Year	Core			Noncore					System Averag
	Res	Comm	Indust	Comm	Indust	TEOR	Cogen	EG	
1990	6.42	6.33	5.59	3.63	3.94	2.93	3.65	3.65	4.40
1991	6.44	6.44	5.64	2.99	3.14	3.47	3.15	3.15	4.25
1992	6.20	6.77	5.04	2.89	2.31	2.72	2.87	2.87	4.51
1993	5.92	6.28	4.97	3.10	2.30	2.43	3.10	3.10	3.69
1994	6.11	6.32	4.65	3.02	2.06	2.05	2.32	2.32	3.62
1995	6.35	6.41	4.67	2.52	1.85	1.52	2.24	2.24	3.57
1996	6.74	6.77	4.68	3.08	2.42	2.14	2.36	2.36	4.09
1997	7.13	7.12	4.69	3.63	2.98	2.76	2.65	2.65	4.31
1998	6.78	7.32	4.22	3.39	2.39	2.37	2.24	2.24	3.94
1999	6.36	6.35	3.48	2.98	2.00	1.99	1.78	1.78	3.46
2000	6.12	6.10	3.42	2.83	1.87	1.86	1.66	1.66	3.24
2001	5.94	5.93	3.42	2.81	1.86	1.86	1.69	1.69	3.20
2002	5.76	5.75	3.42	2.81	1.87	1.88	1.70	1.70	3.13
2003	5.73	5.73	3.43	2.82	1.89	1.89	1.72	1.72	3.12
2004	5.73	5.72	3.45	2.82	1.90	1.90	1.74	1.74	3.14
2005	5.70	5.69	3.45	2.82	1.92	1.92	1.77	1.77	3.13
2006	5.66	5.65	3.45	2.83	1.93	1.93	1.79	1.79	3.09
2007	5.66	5.65	3.46	2.83	1.95	1.94	1.81	1.81	3.11
2008	5.61	5.60	3.46	2.83	1.96	1.95	1.83	1.83	3.09
2009	5.62	5.61	3.48	2.85	1.98	1.97	1.85	1.85	3.09
2010	5.62	5.61	3.51	2.85	1.99	1.98	1.87	1.87	3.10
2011	5.61	5.61	3.53	2.85	2.00	1.99	1.89	1.89	3.12
2012	5.59	5.59	3.54	2.86	2.02	2.00	1.92	1.92	3.10
2013	5.59	5.59	3.55	2.86	2.03	2.01	1.94	1.94	3.12
2014	5.58	5.58	3.57	2.87	2.05	2.03	1.96	1.96	3.13
2015	5.58	5.58	3.59	2.88	2.07	2.05	1.99	1.99	3.14
2016	5.59	5.59	3.62	2.90	2.09	2.07	2.01	2.01	3.16
2017	5.60	5.60	3.64	2.91	2.11	2.08	2.04	2.04	3.17

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

The following notes provide basic assumption in preparing the natural gas price forecast.

Notes:

- 1990-1995 total prices are historical , obtained from QFER 7.
- 1997 margin based on PG&E Advice No. 1978-G, November 15, 1998.
- Remaining years margin based on PG&E Revised BCAP Application No. 97-03-002 and associated work papers (Aug. 18 and 27, 1997).
- Commodity: Nontransportation component of the California natural gas border price. Fuel costs are included.
- Transport: Weighted average interstate transport cost to deliver natural gas to the California border. Fuel is not included.
- ITCS An instate charge to recover interstate transition charges resultant from implementation of FERC Order 636.
- PG&E Margin: Includes base margin, access charges, portion of the backbone costs, local transmission and core storage.
- PG&E Backbone: Weighted average transmission charge to transport natural gas on Line 300, phased in Line 400/401, and incremental Line 401.
- Regulatory: Instate charge to recover customer class charges, including balancing accounts, social, environmental and other regulatory accounts.

PG&E Service Area
Low Price Case
Residential Core Natural Gas Price Forecast

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulatory	
1990							6.42
1991							6.44
1992							6.20
1993							5.92
1994							6.11
1995							6.35
1996							6.74
1997	1.72	0.46	0.04	4.43	0.00	0.49	7.13
1998	1.47	0.46	0.04	3.95	0.12	0.74	6.78
1999	1.24	0.47	0.04	3.90	0.12	0.58	6.36
2000	1.27	0.47	0.00	3.83	0.12	0.43	6.12
2001	1.31	0.47	0.00	3.78	0.12	0.27	5.94
2002	1.34	0.47	0.00	3.72	0.12	0.12	5.76
2003	1.37	0.47	0.00	3.67	0.12	0.12	5.73
2004	1.39	0.46	0.00	3.63	0.12	0.12	5.73
2005	1.42	0.46	0.00	3.58	0.12	0.12	5.70
2006	1.44	0.46	0.00	3.52	0.12	0.12	5.66
2007	1.47	0.46	0.00	3.49	0.12	0.12	5.66
2008	1.49	0.46	0.00	3.41	0.12	0.12	5.61
2009	1.52	0.46	0.00	3.40	0.12	0.12	5.62
2010	1.56	0.46	0.00	3.36	0.12	0.12	5.62
2011	1.60	0.46	0.00	3.32	0.12	0.12	5.61
2012	1.63	0.46	0.00	3.27	0.12	0.12	5.59
2013	1.65	0.46	0.00	3.24	0.12	0.12	5.59
2014	1.68	0.47	0.00	3.20	0.12	0.12	5.58
2015	1.72	0.47	0.00	3.16	0.12	0.12	5.58
2016	1.76	0.47	0.00	3.13	0.12	0.12	5.59
2017	1.79	0.47	0.00	3.10	0.12	0.12	5.60

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March 18, 1998

**PG&E Service Area
Low Price Case
Commercial Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulatory	
1990							6.33
1991							6.44
1992							6.77
1993							6.28
1994							6.32
1995							6.41
1996							6.77
1997	1.72	0.46	0.04	4.43	0.00	0.48	7.12
1998	1.47	0.46	0.04	4.43	0.12	0.80	7.32
1999	1.24	0.47	0.04	3.83	0.12	0.64	6.35
2000	1.27	0.47	0.00	3.76	0.12	0.49	6.10
2001	1.31	0.47	0.00	3.71	0.12	0.33	5.93
2002	1.34	0.47	0.00	3.65	0.12	0.18	5.75
2003	1.37	0.47	0.00	3.60	0.12	0.18	5.73
2004	1.39	0.46	0.00	3.57	0.12	0.18	5.72
2005	1.42	0.46	0.00	3.52	0.12	0.18	5.69
2006	1.44	0.46	0.00	3.46	0.12	0.18	5.65
2007	1.47	0.46	0.00	3.43	0.12	0.18	5.65
2008	1.49	0.46	0.00	3.35	0.12	0.18	5.60
2009	1.52	0.46	0.00	3.34	0.12	0.18	5.61
2010	1.56	0.46	0.00	3.30	0.12	0.18	5.61
2011	1.60	0.46	0.00	3.26	0.12	0.18	5.61
2012	1.63	0.46	0.00	3.21	0.12	0.18	5.59
2013	1.65	0.46	0.00	3.18	0.12	0.18	5.59
2014	1.68	0.47	0.00	3.14	0.12	0.18	5.58
2015	1.72	0.47	0.00	3.10	0.12	0.18	5.58
2016	1.76	0.47	0.00	3.08	0.12	0.18	5.59
2017	1.79	0.47	0.00	3.05	0.12	0.18	5.60

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potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
Low Price Case
Industrial Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodit y	Transpor t	ITCS	Margin	Backbone	Regulator	
1990							5.59
1991							5.64
1992							5.04
1993							4.97
1994							4.65
1995							4.67
1996							4.68
1997	1.72	0.46	0.04	2.40	0.00	0.08	4.69
1998	1.47	0.46	0.04	2.00	0.12	0.12	4.22
1999	1.24	0.47	0.04	1.49	0.12	0.11	3.48
2000	1.27	0.47	0.00	1.46	0.12	0.10	3.42
2001	1.31	0.47	0.00	1.44	0.12	0.09	3.42
2002	1.34	0.47	0.00	1.42	0.12	0.08	3.42
2003	1.37	0.47	0.00	1.40	0.12	0.08	3.43
2004	1.39	0.46	0.00	1.39	0.12	0.08	3.45
2005	1.42	0.46	0.00	1.37	0.12	0.08	3.45
2006	1.44	0.46	0.00	1.34	0.12	0.08	3.45
2007	1.47	0.46	0.00	1.33	0.12	0.08	3.46
2008	1.49	0.46	0.00	1.30	0.12	0.08	3.46
2009	1.52	0.46	0.00	1.30	0.12	0.08	3.48
2010	1.56	0.46	0.00	1.28	0.12	0.08	3.51
2011	1.60	0.46	0.00	1.27	0.12	0.08	3.53
2012	1.63	0.46	0.00	1.25	0.12	0.08	3.54
2013	1.65	0.46	0.00	1.24	0.12	0.08	3.55
2014	1.68	0.47	0.00	1.22	0.12	0.08	3.57
2015	1.72	0.47	0.00	1.20	0.12	0.08	3.59
2016	1.76	0.47	0.00	1.20	0.12	0.08	3.62
2017	1.79	0.47	0.00	1.18	0.12	0.08	3.64

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
Low Price Case
Commercial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	<u>Interstate Charges</u>		<u>PG&E Instate Charges</u>				Total y
	Commodity	Transport	ITCS	Margin	Backbone	Regulator	
1990							3.63
1991							2.99
1992							2.89
1993							3.10
1994							3.02
1995							2.52
1996							3.08
1997	1.71	0.46	0.10	1.28	0.00	0.08	3.63
1998	1.33	0.46	0.14	1.21	0.12	0.14	3.39
1999	0.96	0.46	0.14	1.18	0.12	0.13	2.98
2000	0.98	0.45	0.00	1.17	0.12	0.12	2.83
2001	0.99	0.45	0.00	1.15	0.12	0.11	2.81
2002	1.01	0.45	0.00	1.13	0.12	0.10	2.81
2003	1.03	0.45	0.00	1.12	0.12	0.10	2.82
2004	1.05	0.45	0.00	1.10	0.12	0.10	2.82
2005	1.06	0.45	0.00	1.09	0.12	0.10	2.82
2006	1.08	0.45	0.00	1.08	0.12	0.10	2.83
2007	1.10	0.45	0.00	1.07	0.12	0.10	2.83
2008	1.11	0.45	0.00	1.05	0.12	0.10	2.83
2009	1.13	0.46	0.00	1.05	0.12	0.10	2.85
2010	1.15	0.45	0.00	1.03	0.12	0.10	2.85
2011	1.16	0.45	0.00	1.02	0.12	0.10	2.85
2012	1.18	0.45	0.00	1.01	0.12	0.10	2.86
2013	1.20	0.45	0.00	0.99	0.12	0.10	2.86
2014	1.21	0.45	0.00	0.98	0.12	0.10	2.87
2015	1.23	0.45	0.00	0.97	0.12	0.10	2.88
2016	1.26	0.46	0.00	0.97	0.12	0.10	2.90

2017	1.27	0.46	0.00	0.96	0.12	0.10	2.91
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The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
Low Price Case
Industrial NonCore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulator	
1990							3.94
1991							3.14
1992							2.31
1993							2.30
1994							2.06
1995							1.85
1996							2.42
1997	1.71	0.46	0.10	0.63	0.00	0.08	2.98
1998	1.33	0.46	0.14	0.22	0.12	0.12	2.39
1999	0.96	0.46	0.14	0.22	0.12	0.11	2.00
2000	0.98	0.45	0.00	0.21	0.12	0.10	1.87
2001	0.99	0.45	0.00	0.21	0.12	0.09	1.86
2002	1.01	0.45	0.00	0.21	0.12	0.08	1.87
2003	1.03	0.45	0.00	0.20	0.12	0.08	1.89
2004	1.05	0.45	0.00	0.20	0.12	0.08	1.90
2005	1.06	0.45	0.00	0.20	0.12	0.08	1.92
2006	1.08	0.45	0.00	0.20	0.12	0.08	1.93
2007	1.10	0.45	0.00	0.19	0.12	0.08	1.95
2008	1.11	0.45	0.00	0.19	0.12	0.08	1.96
2009	1.13	0.46	0.00	0.19	0.12	0.08	1.98
2010	1.15	0.45	0.00	0.19	0.12	0.08	1.99
2011	1.16	0.45	0.00	0.19	0.12	0.08	2.00
2012	1.18	0.45	0.00	0.18	0.12	0.08	2.02
2013	1.20	0.45	0.00	0.18	0.12	0.08	2.03
2014	1.21	0.45	0.00	0.18	0.12	0.08	2.05

2015	1.23	0.45	0.00	0.18	0.12	0.08	2.07
2016	1.26	0.46	0.00	0.18	0.12	0.08	2.09
2017	1.27	0.46	0.00	0.18	0.12	0.08	2.11

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
Low Price Case
TEOR Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulatory	
1990							2.93
1991							3.47
1992							2.72
1993							2.43
1994							2.05
1995							1.52
1996							2.14
1997	1.71	0.46	0.10	0.49	0.00	0.00	2.76
1998	1.33	0.46	0.14	0.44	0.00	0.00	2.37
1999	0.96	0.46	0.14	0.43	0.00	0.00	1.99
2000	0.98	0.45	0.00	0.43	0.00	0.00	1.86
2001	0.99	0.45	0.00	0.42	0.00	0.00	1.86
2002	1.01	0.45	0.00	0.41	0.00	0.00	1.88
2003	1.03	0.45	0.00	0.41	0.00	0.00	1.89
2004	1.05	0.45	0.00	0.40	0.00	0.00	1.90
2005	1.06	0.45	0.00	0.40	0.00	0.00	1.92
2006	1.08	0.45	0.00	0.40	0.00	0.00	1.93
2007	1.10	0.45	0.00	0.39	0.00	0.00	1.94
2008	1.11	0.45	0.00	0.38	0.00	0.00	1.95
2009	1.13	0.46	0.00	0.38	0.00	0.00	1.97
2010	1.15	0.45	0.00	0.38	0.00	0.00	1.98
2011	1.16	0.45	0.00	0.37	0.00	0.00	1.99
2012	1.18	0.45	0.00	0.37	0.00	0.00	2.00

2013	1.20	0.45	0.00	0.36	0.00	0.00	2.01
2014	1.21	0.45	0.00	0.36	0.00	0.00	2.03
2015	1.23	0.45	0.00	0.36	0.00	0.00	2.05
2016	1.26	0.46	0.00	0.36	0.00	0.00	2.07
2017	1.27	0.46	0.00	0.35	0.00	0.00	2.08

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
Low Price Case
Cogen Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodit y	Transpor t	ITCS	Margin	Backbone	Regulator	
1990							3.65
1991							3.15
1992							2.87
1993							3.10
1994							2.32
1995							2.24
1996							2.36
1997	1.83	0.20	0.10	0.49	0.00	0.03	2.65
1998	1.40	0.25	0.14	0.20	0.18	0.07	2.24
1999	0.98	0.23	0.14	0.19	0.18	0.06	1.78
2000	0.99	0.25	0.00	0.19	0.18	0.06	1.66
2001	1.01	0.27	0.00	0.19	0.17	0.05	1.69
2002	1.04	0.27	0.00	0.18	0.17	0.04	1.70
2003	1.06	0.28	0.00	0.18	0.17	0.04	1.72
2004	1.07	0.29	0.00	0.18	0.16	0.04	1.74
2005	1.09	0.30	0.00	0.18	0.16	0.04	1.77
2006	1.11	0.31	0.00	0.18	0.15	0.04	1.79
2007	1.12	0.33	0.00	0.17	0.15	0.04	1.81
2008	1.14	0.34	0.00	0.17	0.14	0.04	1.83
2009	1.16	0.35	0.00	0.17	0.14	0.04	1.85
2010	1.20	0.33	0.00	0.17	0.13	0.04	1.87

2011	1.21	0.34	0.00	0.17	0.13	0.04	1.89
2012	1.23	0.35	0.00	0.16	0.13	0.04	1.92
2013	1.25	0.36	0.00	0.16	0.13	0.04	1.94
2014	1.26	0.37	0.00	0.16	0.13	0.04	1.96
2015	1.28	0.37	0.00	0.16	0.13	0.04	1.99
2016	1.31	0.38	0.00	0.16	0.13	0.04	2.01
2017	1.32	0.39	0.00	0.16	0.13	0.04	2.04

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
Low Price Case
Electricity Generation Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		PG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Backbone	Regulator	
1990							3.65
1991							3.15
1992							2.87
1993							3.10
1994							2.32
1995							2.24
1996							2.36
1997	1.83	0.20	0.10	0.49	0.00	0.03	2.65
1998	1.40	0.25	0.14	0.20	0.18	0.07	2.24
1999	0.98	0.23	0.14	0.19	0.18	0.06	1.78
2000	0.99	0.25	0.00	0.19	0.18	0.06	1.66
2001	1.01	0.27	0.00	0.19	0.17	0.05	1.69
2002	1.04	0.27	0.00	0.18	0.17	0.04	1.70
2003	1.06	0.28	0.00	0.18	0.17	0.04	1.72
2004	1.07	0.29	0.00	0.18	0.16	0.04	1.74
2005	1.09	0.30	0.00	0.18	0.16	0.04	1.77
2006	1.11	0.31	0.00	0.18	0.15	0.04	1.79
2007	1.12	0.33	0.00	0.17	0.15	0.04	1.81
2008	1.14	0.34	0.00	0.17	0.14	0.04	1.83

2009	1.16	0.35	0.00	0.17	0.14	0.04	1.85
2010	1.20	0.33	0.00	0.17	0.13	0.04	1.87
2011	1.21	0.34	0.00	0.17	0.13	0.04	1.89
2012	1.23	0.35	0.00	0.16	0.13	0.04	1.92
2013	1.25	0.36	0.00	0.16	0.13	0.04	1.94
2014	1.26	0.37	0.00	0.16	0.13	0.04	1.96
2015	1.28	0.37	0.00	0.16	0.13	0.04	1.99
2016	1.31	0.38	0.00	0.16	0.13	0.04	2.01
2017	1.32	0.39	0.00	0.16	0.13	0.04	2.04

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
Low Price Case
Electricity Generation Gas Price Forecast**

1995 \$ per mmBtu

Year	Commodity	Transportation		Total Price e
		Interstate	Intrastat	
1990				3.55
1991				3.08
1992				2.80
1993				3.02
1994				2.26
1995				2.21
1996				2.32
1997	1.79	0.19	0.61	2.60
1998	1.38	0.25	0.58	2.20
1999	0.96	0.23	0.56	1.75
2000	0.97	0.24	0.41	1.63
2001	0.99	0.26	0.40	1.65
2002	1.02	0.26	0.39	1.67
2003	1.04	0.27	0.38	1.69
2004	1.05	0.28	0.37	1.71
2005	1.07	0.30	0.37	1.73

2006	1.09	0.31	0.36	1.76
2007	1.10	0.32	0.36	1.78
2008	1.12	0.33	0.35	1.80
2009	1.14	0.34	0.34	1.82
2010	1.17	0.33	0.33	1.83
2011	1.19	0.34	0.33	1.86
2012	1.21	0.34	0.33	1.88
2013	1.22	0.35	0.33	1.90
2014	1.24	0.36	0.33	1.92
2015	1.26	0.36	0.32	1.95
2016	1.28	0.37	0.32	1.97
2017	1.30	0.38	0.32	2.00

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**PG&E Service Area
Low Price Case
Electricity Generation Gas Price Forecast**

Nominal \$ per mmBtu

Year	Commodity	Utility Electric Generation		Cogen	
		Transportation	Total	Gas	Price
1990			3.09	3.09	
1991			2.79	2.79	
1992			2.61	2.61	
1993			2.88	2.88	
1994			2.20	2.20	
1995			2.21	2.21	
1996			2.37	2.37	
1997	1.86	0.20	0.63	2.70	2.75
1998	1.46	0.26	0.61	2.34	2.39
1999	1.04	0.25	0.61	1.90	1.94
2000	1.09	0.27	0.46	1.82	1.86
2001	1.14	0.30	0.46	1.90	1.94
2002	1.20	0.31	0.46	1.97	2.01
2003	1.26	0.33	0.46	2.06	2.10
2004	1.33	0.36	0.47	2.15	2.20

2005	1.39	0.39	0.48	2.26	2.30
2006	1.46	0.41	0.49	2.36	2.41
2007	1.54	0.45	0.50	2.48	2.53
2008	1.62	0.48	0.50	2.59	2.65
2009	1.70	0.51	0.51	2.72	2.77
2010	1.82	0.51	0.52	2.84	2.90
2011	1.91	0.54	0.53	2.98	3.04
2012	2.00	0.57	0.55	3.12	3.18
2013	2.10	0.60	0.56	3.27	3.33
2014	2.20	0.64	0.58	3.42	3.49
2015	2.32	0.67	0.60	3.59	3.67
2016	2.45	0.71	0.62	3.78	3.85
2017	2.58	0.76	0.64	3.97	4.05

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

SoCal Gas Service Area
Base Case
End-use Natural Gas Price Forecast Summary

1995 \$ per mcf

Year	Core			Noncore				System	
	Res	Comm	Indust	Comm	Indust	TEOR	Cogen	EG	Average
1990	6.40	6.76	5.99	4.28	3.79	3.37	3.67	3.67	4.75
1991	6.99	7.34	7.34	3.91	3.64	2.86	3.22	3.22	4.72
1992	6.82	7.66	6.40	5.00	3.75	2.82	3.13	3.13	4.78
1993	7.24	7.65	6.71	4.98	3.73	3.16	3.14	3.14	5.01
1994	7.03	6.81	6.59	3.32	2.48	2.48	2.65	2.65	4.60
1995	6.69	6.55	5.85	2.39	2.29	2.01	2.26	2.26	4.26
1996	6.81	5.87	5.06	2.73	2.68	2.43	2.94	2.94	4.53
1997	6.93	5.19	4.26	3.07	3.06	2.85	2.87	2.87	4.42
1998	6.42	4.68	3.75	2.75	2.74	2.53	2.52	2.52	4.00
1999	6.02	4.30	3.38	2.39	2.39	2.22	2.13	2.13	3.60
2000	5.91	4.20	3.28	2.27	2.26	2.28	1.99	1.99	3.44
2001	5.90	4.21	3.30	2.31	2.31	2.33	2.04	2.04	3.45
2002	5.87	4.21	3.32	2.36	2.35	2.38	2.08	2.08	3.44
2003	5.91	4.24	3.36	2.41	2.41	2.43	2.14	2.14	3.50
2004	5.79	4.19	3.34	2.46	2.46	2.49	2.19	2.19	3.46
2005	5.84	4.22	3.37	2.51	2.51	2.53	2.24	2.24	3.53
2006	5.73	4.17	3.35	2.54	2.54	2.57	2.28	2.28	3.49
2007	5.71	4.17	3.36	2.59	2.58	2.62	2.33	2.33	3.52
2008	5.69	4.18	3.38	2.65	2.65	2.68	2.40	2.40	3.54
2009	5.79	4.25	3.44	2.70	2.70	2.73	2.44	2.44	3.59
2010	5.78	4.26	3.46	2.70	2.69	2.73	2.44	2.44	3.59
2011	5.76	4.27	3.49	2.75	2.74	2.78	2.49	2.49	3.60
2012	5.80	4.32	3.54	2.80	2.79	2.83	2.54	2.54	3.64
2013	5.80	4.34	3.57	2.84	2.84	2.87	2.59	2.59	3.66
2014	5.84	4.38	3.61	2.89	2.89	2.92	2.64	2.64	3.70
2015	5.84	4.40	3.64	2.93	2.93	2.96	2.68	2.68	3.72
2016	5.84	4.42	3.68	2.98	2.97	3.00	2.73	2.73	3.75
2017	5.86	4.45	3.71	3.02	3.01	3.04	2.77	2.77	3.78

Adopted March 18, 1998
by the California Energy Commission for the **1997 Fuels Report**.

The following notes provide basic assumption in preparing the natural gas pce forecast.

Notes:

- 1990-1995 total prices are historical , obtained from QFER 7. 1996 is interpolated.
- Commodity: Nontransportation component of the California natural gas border price. Fuel costs are included.
- Transport: Weighted average interstate transport cost to deliver natural gas to the California border. Fuel is not included.
- ITCS An instate charge to recover interstate transition charges resultant from implementation of FERC Order 636.
- SoCal Gas Margin: Distribution and administration costs associated with running the SoCal Gas pipeline system.
- PITCO/POPCO: Global settlement associated with PITCO and POPCO long term supply contracts.
- Regulatory: Includes balancing accounts, social, environmental and other regulatory accounts.

SoCal Gas Servic Area
Base Case
Residential Core Price Natrual Gas Price Forecast

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges			Total	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
1990						6.40	
1991						6.99	
1992						6.82	
1993						7.24	
1994						7.03	
1995						6.69	
1996						6.81	
1997	2.15	0.54	0.03	3.83	0.12	0.26	6.93
1998	1.80	0.38	0.03	3.83	0.12	0.26	6.42
1999	1.45	0.37	0.03	3.79	0.12	0.26	6.02
2000	1.49	0.37	0.03	3.76	0.00	0.26	5.91
2001	1.53	0.36	0.02	3.72	0.00	0.26	5.90
2002	1.58	0.36	0.02	3.66	0.00	0.26	5.87
2003	1.62	0.35	0.02	3.65	0.00	0.26	5.91
2004	1.65	0.35	0.01	3.52	0.00	0.26	5.79
2005	1.68	0.35	0.01	3.55	0.00	0.26	5.84
2006	1.71	0.34	0.01	3.42	0.00	0.26	5.73
2007	1.75	0.32	0.00	3.38	0.00	0.26	5.71
2008	1.78	0.34	0.00	3.31	0.00	0.26	5.69
2009	1.81	0.35	0.00	3.37	0.00	0.26	5.79
2010	1.86	0.34	0.00	3.32	0.00	0.26	5.78
2011	1.90	0.34	0.00	3.25	0.00	0.26	5.76
2012	1.95	0.35	0.00	3.25	0.00	0.26	5.80
2013	1.99	0.35	0.00	3.19	0.00	0.26	5.80
2014	2.04	0.35	0.00	3.19	0.00	0.26	5.84
2015	2.08	0.36	0.00	3.14	0.00	0.26	5.84
2016	2.12	0.36	0.00	3.11	0.00	0.26	5.84
2017	2.16	0.36	0.00	3.08	0.00	0.26	5.86

Adopted March 18, 1998
by the California Energy Commission for the **1997 Fuels Report**.

SoCal Gas Service Area
Base Case
Commercial Core Natural Gas Price Forecast

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodit y	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							6.76
1991							7.34
1992							7.66
1993							7.65
1994							6.81
1995							6.55
1996							5.87
1997	2.15	0.54	0.03	2.14	0.12	0.21	5.19
1998	1.80	0.38	0.03	2.14	0.12	0.21	4.68
1999	1.45	0.37	0.03	2.12	0.12	0.21	4.30
2000	1.49	0.37	0.03	2.10	0.00	0.21	4.20
2001	1.53	0.36	0.02	2.08	0.00	0.21	4.21
2002	1.58	0.36	0.02	2.05	0.00	0.21	4.21
2003	1.62	0.35	0.02	2.04	0.00	0.21	4.24
2004	1.65	0.35	0.01	1.97	0.00	0.21	4.19
2005	1.68	0.35	0.01	1.98	0.00	0.21	4.22
2006	1.71	0.34	0.01	1.91	0.00	0.21	4.17
2007	1.75	0.32	0.00	1.89	0.00	0.21	4.17
2008	1.78	0.34	0.00	1.85	0.00	0.21	4.18
2009	1.81	0.35	0.00	1.88	0.00	0.21	4.25
2010	1.86	0.34	0.00	1.86	0.00	0.21	4.26
2011	1.90	0.34	0.00	1.82	0.00	0.21	4.27
2012	1.95	0.35	0.00	1.82	0.00	0.21	4.32
2013	1.99	0.35	0.00	1.79	0.00	0.21	4.34
2014	2.04	0.35	0.00	1.78	0.00	0.21	4.38
2015	2.08	0.36	0.00	1.76	0.00	0.21	4.40
2016	2.12	0.36	0.00	1.74	0.00	0.21	4.42
2017	2.16	0.36	0.00	1.72	0.00	0.21	4.45

Adopted March 18, 1998
by the California Energy Commission for the **1997 Fuels Report**.

SoCal Gas Service Area
Base Case
Industrial Core Natural Gas Price Forecast

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							5.99
1991							7.34
1992							6.40
1993							6.71
1994							6.59
1995							5.85
1996							5.06
1997	2.15	0.54	0.03	1.16	0.12	0.25	4.26
1998	1.80	0.38	0.03	1.16	0.12	0.25	3.75
1999	1.45	0.37	0.03	1.15	0.12	0.25	3.38
2000	1.49	0.37	0.03	1.14	0.00	0.25	3.28
2001	1.53	0.36	0.02	1.13	0.00	0.25	3.30
2002	1.58	0.36	0.02	1.11	0.00	0.25	3.32
2003	1.62	0.35	0.02	1.11	0.00	0.25	3.36
2004	1.65	0.35	0.01	1.07	0.00	0.25	3.34
2005	1.68	0.35	0.01	1.08	0.00	0.25	3.37
2006	1.71	0.34	0.01	1.04	0.00	0.25	3.35
2007	1.75	0.32	0.00	1.03	0.00	0.25	3.36
2008	1.78	0.34	0.00	1.01	0.00	0.25	3.38
2009	1.81	0.35	0.00	1.02	0.00	0.25	3.44
2010	1.86	0.34	0.00	1.01	0.00	0.25	3.46
2011	1.90	0.34	0.00	0.99	0.00	0.25	3.49
2012	1.95	0.35	0.00	0.99	0.00	0.25	3.54
2013	1.99	0.35	0.00	0.97	0.00	0.25	3.57
2014	2.04	0.35	0.00	0.97	0.00	0.25	3.61
2015	2.08	0.36	0.00	0.95	0.00	0.25	3.64
2016	2.12	0.36	0.00	0.94	0.00	0.25	3.68
2017	2.16	0.36	0.00	0.94	0.00	0.25	3.71

Adopted March 18, 1998
by the California Energy Commission for the **1997 Fuels Report**.

**SoCal Gas Service Area
Base Case
Commercial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodit	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
y							
1990							4.28
1991							3.91
1992							5.00
1993							4.98
1994							3.32
1995							2.39
1996							2.73
1997	2.20	0.15	0.14	0.42	0.12	0.06	3.07
1998	1.81	0.20	0.13	0.42	0.12	0.06	2.75
1999	1.48	0.21	0.09	0.43	0.12	0.06	2.39
2000	1.52	0.23	0.03	0.43	0.00	0.06	2.27
2001	1.56	0.25	0.02	0.43	0.00	0.06	2.31
2002	1.60	0.26	0.02	0.42	0.00	0.06	2.36
2003	1.64	0.28	0.02	0.42	0.00	0.06	2.41
2004	1.67	0.32	0.01	0.41	0.00	0.06	2.46
2005	1.70	0.34	0.01	0.41	0.00	0.06	2.51
2006	1.73	0.36	0.01	0.40	0.00	0.06	2.54
2007	1.75	0.39	0.00	0.39	0.00	0.06	2.59
2008	1.78	0.43	0.00	0.39	0.00	0.06	2.65
2009	1.81	0.44	0.00	0.40	0.00	0.06	2.70
2010	1.85	0.40	0.00	0.39	0.00	0.06	2.70
2011	1.90	0.41	0.00	0.38	0.00	0.06	2.75
2012	1.94	0.42	0.00	0.38	0.00	0.06	2.80
2013	1.98	0.43	0.00	0.38	0.00	0.06	2.84
2014	2.02	0.44	0.00	0.38	0.00	0.06	2.89
2015	2.06	0.44	0.00	0.37	0.00	0.06	2.93
2016	2.10	0.45	0.00	0.37	0.00	0.06	2.98
2017	2.14	0.46	0.00	0.37	0.00	0.06	3.02

Adopted March 18, 1998
by the California Energy Commission for the **1997 Fuels Report**.

**SoCal Gas Service Area
Base Case
Industrial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges			Total y	
	Commodity	Transport	ITCS	Margin	Pitco/Popc		
1990						3.79	
1991						3.64	
1992						3.75	
1993						3.73	
1994						2.48	
1995						2.29	
1996						2.68	
1997	2.20	0.15	0.14	0.41	0.12	0.06	3.06
1998	1.81	0.20	0.13	0.42	0.12	0.06	2.74
1999	1.48	0.21	0.09	0.43	0.12	0.06	2.39
2000	1.52	0.23	0.03	0.43	0.00	0.06	2.26
2001	1.56	0.25	0.02	0.42	0.00	0.06	2.31
2002	1.60	0.26	0.02	0.42	0.00	0.06	2.35
2003	1.64	0.28	0.02	0.42	0.00	0.06	2.41
2004	1.67	0.32	0.01	0.41	0.00	0.06	2.46
2005	1.70	0.34	0.01	0.41	0.00	0.06	2.51
2006	1.73	0.36	0.01	0.39	0.00	0.06	2.54
2007	1.75	0.39	0.00	0.39	0.00	0.06	2.58
2008	1.78	0.43	0.00	0.38	0.00	0.06	2.65
2009	1.81	0.44	0.00	0.39	0.00	0.06	2.70
2010	1.85	0.40	0.00	0.39	0.00	0.06	2.69
2011	1.90	0.41	0.00	0.38	0.00	0.06	2.74
2012	1.94	0.42	0.00	0.38	0.00	0.06	2.79
2013	1.98	0.43	0.00	0.38	0.00	0.06	2.84
2014	2.02	0.44	0.00	0.37	0.00	0.06	2.89
2015	2.06	0.44	0.00	0.37	0.00	0.06	2.93
2016	2.10	0.45	0.00	0.37	0.00	0.06	2.97
2017	2.14	0.46	0.00	0.37	0.00	0.06	3.01

Adopted March 18, 1998

by the California Energy Commission for the ***1997 Fuels Report***.

**SoCal Gas Service Area
Base Case
TEOR Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							3.37
1991							2.86
1992							2.82
1993							3.16
1994							2.48
1995							2.01
1996							2.43
1997	2.20	0.15	0.00	0.51	0.00	0.00	2.85
1998	1.81	0.20	0.00	0.52	0.00	0.00	2.53
1999	1.48	0.21	0.00	0.52	0.00	0.00	2.22
2000	1.52	0.23	0.00	0.52	0.00	0.00	2.28
2001	1.56	0.25	0.00	0.52	0.00	0.00	2.33
2002	1.60	0.26	0.00	0.52	0.00	0.00	2.38
2003	1.64	0.28	0.00	0.51	0.00	0.00	2.43
2004	1.67	0.32	0.00	0.50	0.00	0.00	2.49
2005	1.70	0.34	0.00	0.50	0.00	0.00	2.53
2006	1.73	0.36	0.00	0.49	0.00	0.00	2.57
2007	1.75	0.39	0.00	0.48	0.00	0.00	2.62
2008	1.78	0.43	0.00	0.47	0.00	0.00	2.68
2009	1.81	0.44	0.00	0.48	0.00	0.00	2.73
2010	1.85	0.40	0.00	0.47	0.00	0.00	2.73
2011	1.90	0.41	0.00	0.47	0.00	0.00	2.78
2012	1.94	0.42	0.00	0.47	0.00	0.00	2.83
2013	1.98	0.43	0.00	0.46	0.00	0.00	2.87
2014	2.02	0.44	0.00	0.46	0.00	0.00	2.92
2015	2.06	0.44	0.00	0.46	0.00	0.00	2.96
2016	2.10	0.45	0.00	0.45	0.00	0.00	3.00
2017	2.14	0.46	0.00	0.45	0.00	0.00	3.04

Adopted March 18, 1998

by the California Energy Commission for the ***1997 Fuels Report***.

**SoCal Gas Service Area
Base Case
Cogen Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total 0
	Commodity	Transport	ITCS	Margin	Pitco/Popc	Regulatory	
1990							3.67
1991							3.22
1992							3.13
1993							3.14
1994							2.65
1995							2.26
1996							2.94
1997	1.99	0.39	0.14	0.17	0.12	0.07	2.87
1998	1.81	0.23	0.13	0.18	0.12	0.06	2.52
1999	1.48	0.21	0.09	0.18	0.12	0.05	2.13
2000	1.52	0.23	0.03	0.18	0.00	0.03	1.99
2001	1.56	0.25	0.02	0.18	0.00	0.03	2.04
2002	1.60	0.26	0.02	0.18	0.00	0.03	2.08
2003	1.64	0.28	0.02	0.17	0.00	0.03	2.14
2004	1.67	0.32	0.01	0.17	0.00	0.03	2.19
2005	1.70	0.34	0.01	0.17	0.00	0.03	2.24
2006	1.73	0.36	0.01	0.17	0.00	0.03	2.28
2007	1.75	0.39	0.00	0.16	0.00	0.03	2.33
2008	1.78	0.43	0.00	0.16	0.00	0.03	2.40
2009	1.81	0.44	0.00	0.16	0.00	0.03	2.44
2010	1.85	0.40	0.00	0.16	0.00	0.03	2.44
2011	1.90	0.41	0.00	0.16	0.00	0.03	2.49
2012	1.94	0.42	0.00	0.16	0.00	0.03	2.54
2013	1.98	0.43	0.00	0.16	0.00	0.03	2.59
2014	2.02	0.44	0.00	0.16	0.00	0.03	2.64
2015	2.06	0.44	0.00	0.16	0.00	0.03	2.68
2016	2.10	0.45	0.00	0.15	0.00	0.03	2.73
2017	2.14	0.46	0.00	0.15	0.00	0.03	2.77

Adopted March 18, 1998
by the California Energy Commission for the ***1997 Fuels Report***.

**SoCal Gas Service Area
Base Case
Electricity Generation Noncore Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulator	
1990							3.67
1991							3.22
1992							3.13
1993							3.14
1994							2.65
1995							2.26
1996							2.94
1997	1.99	0.39	0.14	0.17	0.12	0.07	2.87
1998	1.81	0.23	0.13	0.18	0.12	0.06	2.52
1999	1.48	0.21	0.09	0.18	0.12	0.05	2.13
2000	1.52	0.23	0.03	0.18	0.00	0.03	1.99
2001	1.56	0.25	0.02	0.18	0.00	0.03	2.04
2002	1.60	0.26	0.02	0.18	0.00	0.03	2.08
2003	1.64	0.28	0.02	0.17	0.00	0.03	2.14
2004	1.67	0.32	0.01	0.17	0.00	0.03	2.19
2005	1.70	0.34	0.01	0.17	0.00	0.03	2.24
2006	1.73	0.36	0.01	0.17	0.00	0.03	2.28
2007	1.75	0.39	0.00	0.16	0.00	0.03	2.33
2008	1.78	0.43	0.00	0.16	0.00	0.03	2.40
2009	1.81	0.44	0.00	0.16	0.00	0.03	2.44
2010	1.85	0.40	0.00	0.16	0.00	0.03	2.44
2011	1.90	0.41	0.00	0.16	0.00	0.03	2.49
2012	1.94	0.42	0.00	0.16	0.00	0.03	2.54
2013	1.98	0.43	0.00	0.16	0.00	0.03	2.59
2014	2.02	0.44	0.00	0.16	0.00	0.03	2.64
2015	2.06	0.44	0.00	0.16	0.00	0.03	2.68
2016	2.10	0.45	0.00	0.15	0.00	0.03	2.73
2017	2.14	0.46	0.00	0.15	0.00	0.03	2.77

Adopted March 18, 1998
 by the California Energy Commission for the ***1997 Fuels Report***.

**SoCal Gas Service Area
 Base Case
 Electricity Generation Gas Price Forecast**

1995 \$ per mmBtu

Year y	Commodity	<u>Transportation</u>		Total Price
		Interstate	Intrastate	
1990				3.51
1991				3.11
1992				3.00
1993				3.02
1994				2.55
1995				2.20
1996				2.85
1997	1.94	0.38	0.48	2.80
1998	1.76	0.22	0.47	2.46
1999	1.45	0.21	0.43	2.08
2000	1.48	0.23	0.23	1.94
2001	1.52	0.24	0.22	1.99
2002	1.56	0.25	0.22	2.03
2003	1.60	0.28	0.21	2.09
2004	1.63	0.31	0.20	2.14
2005	1.66	0.33	0.20	2.19
2006	1.68	0.35	0.19	2.22
2007	1.71	0.38	0.19	2.27
2008	1.74	0.42	0.18	2.34
2009	1.77	0.43	0.19	2.38
2010	1.81	0.39	0.18	2.38
2011	1.85	0.40	0.18	2.43
2012	1.89	0.41	0.18	2.48
2013	1.93	0.42	0.18	2.53
2014	1.97	0.43	0.18	2.58
2015	2.01	0.43	0.18	2.62
2016	2.05	0.44	0.18	2.66

2017	2.09	0.44	0.18	2.71
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Adopted March 18, 1998
 by the California Energy Commission for the **1997 Fuels Report**.

SoCal Gas Service Area
Base Case
Electricity Generation Gas Price Forecast

Nominal \$ per mmBtu

Year	Commodity	Transportation		Total Price	Cogen Gas Price
		Interstate	Intrastat		
1990				3.05	3.05
1991				2.81	2.81
1992				2.79	2.79
1993				2.88	2.88
1994				2.49	2.49
1995				2.20	2.20
1996				2.91	2.91
1997	2.02	0.39	0.50	2.91	2.91
1998	1.87	0.24	0.50	2.61	2.61
1999	1.58	0.23	0.46	2.27	2.27
2000	1.66	0.25	0.25	2.17	2.17
2001	1.75	0.28	0.26	2.29	2.29
2002	1.85	0.30	0.26	2.40	2.40
2003	1.95	0.34	0.26	2.55	2.55
2004	2.05	0.39	0.26	2.69	2.69
2005	2.16	0.43	0.26	2.85	2.85
2006	2.27	0.47	0.26	3.00	3.00
2007	2.38	0.53	0.26	3.17	3.17
2008	2.51	0.61	0.26	3.38	3.38
2009	2.64	0.65	0.28	3.57	3.57
2010	2.80	0.61	0.29	3.69	3.69
2011	2.97	0.65	0.29	3.90	3.90
2012	3.14	0.68	0.30	4.12	4.12
2013	3.32	0.72	0.31	4.35	4.35
2014	3.51	0.76	0.32	4.59	4.59
2015	3.71	0.80	0.33	4.83	4.83

2016	3.92	0.84	0.34	5.10	5.10
2017	4.14	0.88	0.35	5.37	5.37

Adopted March 18, 1998
by the California Energy Commission for the ***1997 Fuels Report***.

SoCal Gas Service Area
High Price Case
End-use Natural Gas Price Forecast Summary

1995 \$ per mcf

Year	Core			Noncore					System Averag
	Res	Comm	Indust	Comm	Indust	TEOR	Cogen	EG	
1990	6.40	6.76	5.99	4.28	3.79	3.37	3.67	3.67	4.75
1991	6.99	7.34	7.34	3.91	3.64	2.86	3.22	3.22	4.72
1992	6.82	7.66	6.40	5.00	3.75	2.82	3.13	3.13	4.78
1993	7.24	7.65	6.71	4.98	3.73	3.16	3.14	3.14	5.01
1994	7.03	6.81	6.59	3.32	2.48	2.48	2.65	2.65	4.60
1995	6.69	6.55	5.85	2.39	2.29	2.01	2.26	2.26	4.26
1996	6.72	5.78	4.97	2.73	2.68	2.43	2.94	2.94	4.49
1997	6.75	5.01	4.08	3.07	3.06	2.85	2.87	2.87	4.34
1998	6.61	4.88	3.95	2.95	2.94	2.74	2.72	2.72	4.16
1999	6.43	4.72	3.81	2.80	2.79	2.63	2.54	2.54	3.93
2000	6.33	4.64	3.74	2.69	2.69	2.71	2.41	2.41	3.79
2001	6.35	4.68	3.79	2.75	2.75	2.77	2.48	2.48	3.82
2002	6.35	4.70	3.83	2.81	2.81	2.84	2.54	2.54	3.84
2003	6.40	4.75	3.88	2.89	2.89	2.92	2.62	2.62	3.92
2004	6.31	4.72	3.88	2.95	2.95	2.99	2.69	2.69	3.90
2005	6.40	4.80	3.95	3.02	3.02	3.05	2.76	2.76	3.99
2006	6.33	4.78	3.97	3.08	3.07	3.11	2.82	2.82	3.99
2007	6.32	4.79	3.99	3.20	3.19	3.23	2.94	2.94	4.07
2008	6.32	4.82	4.04	3.26	3.25	3.28	3.01	3.01	4.10
2009	6.44	4.92	4.12	3.33	3.33	3.36	3.08	3.08	4.17
2010	6.45	4.95	4.16	3.34	3.34	3.37	3.09	3.09	4.18
2011	6.45	4.98	4.21	3.41	3.41	3.44	3.16	3.16	4.21
2012	6.52	5.05	4.28	3.48	3.48	3.51	3.23	3.23	4.28
2013	6.53	5.09	4.33	3.55	3.54	3.57	3.30	3.30	4.32
2014	6.60	5.16	4.40	3.61	3.61	3.64	3.37	3.37	4.38
2015	6.62	5.20	4.46	3.68	3.68	3.71	3.44	3.44	4.43
2016	6.66	5.25	4.51	3.75	3.74	3.77	3.50	3.50	4.48
2017	6.70	5.30	4.57	3.81	3.81	3.84	3.57	3.57	4.54

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

The High Price Case was prepared by the California Energy Commission for the ***1997 Fuels Report*** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

The following notes provide basic assumption in preparing the natural gas price forecast.

Notes:

- 1990-1995 total prices are historical , obtained from QFER 7. 1996 is interpolated.
- Commodity: Nontransportation component of the California natural gas border price. Fuel costs are included.
- Transport: Weighted average interstate transport cost to deliver natural gas to the California border. Fuel is not included.
- ITCS An instate charge to recover interstate transition charges resultant from implementation of FERC Order 636.
- SoCal Gas Margin: Distribution and administration costs associated with running the SoCal Gas pipeline system.
- PITCO/POPCO: Global settlement associated with PITCO and POPCO long term supply contracts.
- Regulatory: Includes balancing accounts, social, environmental and other regulatory accounts.

SoCal Gas Service Area
High Price Case
Residential Core Natural Gas Price Forecast

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							6.40
1991							6.99
1992							6.82
1993							7.24
1994							7.03
1995							6.69
1996							6.72
1997	2.15	0.36	0.03	3.83	0.12	0.26	6.75
1998	2.02	0.37	0.03	3.81	0.12	0.26	6.61
1999	1.90	0.37	0.03	3.75	0.12	0.26	6.43
2000	1.97	0.37	0.02	3.72	0.00	0.26	6.33
2001	2.03	0.37	0.02	3.68	0.00	0.26	6.35
2002	2.10	0.37	0.01	3.62	0.00	0.26	6.35
2003	2.15	0.37	0.01	3.61	0.00	0.26	6.40
2004	2.20	0.38	0.00	3.48	0.00	0.26	6.31
2005	2.25	0.38	0.00	3.50	0.00	0.26	6.40
2006	2.31	0.38	0.00	3.38	0.00	0.26	6.33
2007	2.36	0.36	0.00	3.34	0.00	0.26	6.32
2008	2.42	0.37	0.00	3.27	0.00	0.26	6.32
2009	2.47	0.38	0.00	3.33	0.00	0.26	6.44
2010	2.54	0.37	0.00	3.28	0.00	0.26	6.45
2011	2.61	0.37	0.00	3.21	0.00	0.26	6.45
2012	2.68	0.37	0.00	3.21	0.00	0.26	6.52
2013	2.74	0.38	0.00	3.16	0.00	0.26	6.53
2014	2.81	0.38	0.00	3.15	0.00	0.26	6.60
2015	2.88	0.38	0.00	3.10	0.00	0.26	6.62
2016	2.95	0.38	0.00	3.07	0.00	0.26	6.66
2017	3.01	0.38	0.00	3.04	0.00	0.26	6.70

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent

potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
High Price Case
Commercial Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							6.76
1991							7.34
1992							7.66
1993							7.65
1994							6.81
1995							6.55
1996							5.78
1997	2.15	0.36	0.03	2.14	0.12	0.21	5.01
1998	2.02	0.37	0.03	2.13	0.12	0.21	4.88
1999	1.90	0.37	0.03	2.10	0.12	0.21	4.72
2000	1.97	0.37	0.02	2.08	0.00	0.21	4.64
2001	2.03	0.37	0.02	2.06	0.00	0.21	4.68
2002	2.10	0.37	0.01	2.02	0.00	0.21	4.70
2003	2.15	0.37	0.01	2.02	0.00	0.21	4.75
2004	2.20	0.38	0.00	1.94	0.00	0.21	4.72
2005	2.25	0.38	0.00	1.96	0.00	0.21	4.80
2006	2.31	0.38	0.00	1.89	0.00	0.21	4.78
2007	2.36	0.36	0.00	1.86	0.00	0.21	4.79
2008	2.42	0.37	0.00	1.83	0.00	0.21	4.82
2009	2.47	0.38	0.00	1.86	0.00	0.21	4.92
2010	2.54	0.37	0.00	1.83	0.00	0.21	4.95
2011	2.61	0.37	0.00	1.80	0.00	0.21	4.98
2012	2.68	0.37	0.00	1.79	0.00	0.21	5.05
2013	2.74	0.38	0.00	1.76	0.00	0.21	5.09
2014	2.81	0.38	0.00	1.76	0.00	0.21	5.16
2015	2.88	0.38	0.00	1.73	0.00	0.21	5.20
2016	2.95	0.38	0.00	1.72	0.00	0.21	5.25
2017	3.01	0.38	0.00	1.70	0.00	0.21	5.30

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
High Price Case
Industrial Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							5.99
1991							7.34
1992							6.40
1993							6.71
1994							6.59
1995							5.85
1996							4.97
1997	2.15	0.36	0.03	1.16	0.12	0.25	4.08
1998	2.02	0.37	0.03	1.16	0.12	0.25	3.95
1999	1.90	0.37	0.03	1.14	0.12	0.25	3.81
2000	1.97	0.37	0.02	1.13	0.00	0.25	3.74
2001	2.03	0.37	0.02	1.12	0.00	0.25	3.79
2002	2.10	0.37	0.01	1.10	0.00	0.25	3.83
2003	2.15	0.37	0.01	1.10	0.00	0.25	3.88
2004	2.20	0.38	0.00	1.06	0.00	0.25	3.88
2005	2.25	0.38	0.00	1.06	0.00	0.25	3.95
2006	2.31	0.38	0.00	1.03	0.00	0.25	3.97
2007	2.36	0.36	0.00	1.01	0.00	0.25	3.99
2008	2.42	0.37	0.00	0.99	0.00	0.25	4.04
2009	2.47	0.38	0.00	1.01	0.00	0.25	4.12
2010	2.54	0.37	0.00	1.00	0.00	0.25	4.16
2011	2.61	0.37	0.00	0.98	0.00	0.25	4.21
2012	2.68	0.37	0.00	0.97	0.00	0.25	4.28
2013	2.74	0.38	0.00	0.96	0.00	0.25	4.33
2014	2.81	0.38	0.00	0.96	0.00	0.25	4.40
2015	2.88	0.38	0.00	0.94	0.00	0.25	4.46
2016	2.95	0.38	0.00	0.93	0.00	0.25	4.51
2017	3.01	0.38	0.00	0.92	0.00	0.25	4.57

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
High Price Case
Commercial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							4.28
1991							3.91
1992							5.00
1993							4.98
1994							3.32
1995							2.39
1996							2.73
1997	2.19	0.16	0.13	0.42	0.12	0.06	3.07
1998	2.01	0.22	0.13	0.42	0.12	0.06	2.95
1999	1.89	0.23	0.08	0.42	0.12	0.06	2.80
2000	1.94	0.25	0.02	0.42	0.00	0.06	2.69
2001	2.00	0.26	0.02	0.42	0.00	0.06	2.75
2002	2.06	0.27	0.01	0.42	0.00	0.06	2.81
2003	2.10	0.31	0.01	0.41	0.00	0.06	2.89
2004	2.15	0.35	0.00	0.40	0.00	0.06	2.95
2005	2.20	0.36	0.00	0.40	0.00	0.06	3.02
2006	2.25	0.38	0.00	0.39	0.00	0.06	3.08
2007	2.30	0.45	0.00	0.39	0.00	0.06	3.20
2008	2.36	0.47	0.00	0.38	0.00	0.06	3.26
2009	2.41	0.48	0.00	0.39	0.00	0.06	3.33
2010	2.47	0.43	0.00	0.38	0.00	0.06	3.34
2011	2.54	0.44	0.00	0.38	0.00	0.06	3.41
2012	2.60	0.44	0.00	0.38	0.00	0.06	3.48
2013	2.67	0.45	0.00	0.37	0.00	0.06	3.55
2014	2.73	0.45	0.00	0.37	0.00	0.06	3.61
2015	2.79	0.46	0.00	0.37	0.00	0.06	3.68
2016	2.86	0.47	0.00	0.37	0.00	0.06	3.75

2017	2.92	0.47	0.00	0.37	0.00	0.06	3.81
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The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
High Price Case
Industrial NonCore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							3.79
1991							3.64
1992							3.75
1993							3.73
1994							2.48
1995							2.29
1996							2.68
1997	2.19	0.16	0.13	0.41	0.12	0.06	3.06
1998	2.01	0.22	0.13	0.42	0.12	0.06	2.94
1999	1.89	0.23	0.08	0.42	0.12	0.06	2.79
2000	1.94	0.25	0.02	0.42	0.00	0.06	2.69
2001	2.00	0.26	0.02	0.42	0.00	0.06	2.75
2002	2.06	0.27	0.01	0.41	0.00	0.06	2.81
2003	2.10	0.31	0.01	0.41	0.00	0.06	2.89
2004	2.15	0.35	0.00	0.40	0.00	0.06	2.95
2005	2.20	0.36	0.00	0.40	0.00	0.06	3.02
2006	2.25	0.38	0.00	0.39	0.00	0.06	3.07
2007	2.30	0.45	0.00	0.38	0.00	0.06	3.19
2008	2.36	0.47	0.00	0.38	0.00	0.06	3.25
2009	2.41	0.48	0.00	0.38	0.00	0.06	3.33
2010	2.47	0.43	0.00	0.38	0.00	0.06	3.34
2011	2.54	0.44	0.00	0.37	0.00	0.06	3.41
2012	2.60	0.44	0.00	0.37	0.00	0.06	3.48
2013	2.67	0.45	0.00	0.37	0.00	0.06	3.54
2014	2.73	0.45	0.00	0.37	0.00	0.06	3.61
2015	2.79	0.46	0.00	0.37	0.00	0.06	3.68

2016	2.86	0.47	0.00	0.36	0.00	0.06	3.74
2017	2.92	0.47	0.00	0.36	0.00	0.06	3.81

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
High Price Case
TEOR Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							3.37
1991							2.86
1992							2.82
1993							3.16
1994							2.48
1995							2.01
1996							2.43
1997	2.19	0.16	0.00	0.51	0.00	0.00	2.85
1998	2.01	0.22	0.00	0.51	0.00	0.00	2.74
1999	1.89	0.23	0.00	0.51	0.00	0.00	2.63
2000	1.94	0.25	0.00	0.51	0.00	0.00	2.71
2001	2.00	0.26	0.00	0.51	0.00	0.00	2.77
2002	2.06	0.27	0.00	0.51	0.00	0.00	2.84
2003	2.10	0.31	0.00	0.50	0.00	0.00	2.92
2004	2.15	0.35	0.00	0.49	0.00	0.00	2.99
2005	2.20	0.36	0.00	0.49	0.00	0.00	3.05
2006	2.25	0.38	0.00	0.48	0.00	0.00	3.11
2007	2.30	0.45	0.00	0.47	0.00	0.00	3.23
2008	2.36	0.47	0.00	0.46	0.00	0.00	3.28
2009	2.41	0.48	0.00	0.47	0.00	0.00	3.36
2010	2.47	0.43	0.00	0.47	0.00	0.00	3.37
2011	2.54	0.44	0.00	0.46	0.00	0.00	3.44
2012	2.60	0.44	0.00	0.46	0.00	0.00	3.51
2013	2.67	0.45	0.00	0.46	0.00	0.00	3.57
2014	2.73	0.45	0.00	0.45	0.00	0.00	3.64

2015	2.79	0.46	0.00	0.45	0.00	0.00	3.71
2016	2.86	0.47	0.00	0.45	0.00	0.00	3.77
2017	2.92	0.47	0.00	0.45	0.00	0.00	3.84

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
High Price Case
Cogen Noncore Generation Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							3.67
1991							3.22
1992							3.13
1993							3.14
1994							2.65
1995							2.26
1996							2.94
1997	1.99	0.39	0.13	0.17	0.12	0.07	2.87
1998	2.00	0.24	0.13	0.17	0.12	0.06	2.72
1999	1.89	0.23	0.08	0.18	0.12	0.05	2.54
2000	1.94	0.25	0.02	0.18	0.00	0.03	2.41
2001	2.00	0.26	0.02	0.17	0.00	0.03	2.48
2002	2.06	0.27	0.01	0.17	0.00	0.03	2.54
2003	2.10	0.31	0.01	0.17	0.00	0.03	2.62
2004	2.15	0.35	0.00	0.17	0.00	0.03	2.69
2005	2.20	0.36	0.00	0.17	0.00	0.03	2.76
2006	2.25	0.38	0.00	0.16	0.00	0.03	2.82
2007	2.30	0.45	0.00	0.16	0.00	0.03	2.94
2008	2.36	0.47	0.00	0.16	0.00	0.03	3.01
2009	2.41	0.48	0.00	0.16	0.00	0.03	3.08
2010	2.47	0.43	0.00	0.16	0.00	0.03	3.09
2011	2.54	0.44	0.00	0.16	0.00	0.03	3.16
2012	2.60	0.44	0.00	0.16	0.00	0.03	3.23
2013	2.67	0.45	0.00	0.16	0.00	0.03	3.30

2014	2.73	0.45	0.00	0.15	0.00	0.03	3.37
2015	2.79	0.46	0.00	0.15	0.00	0.03	3.44
2016	2.86	0.47	0.00	0.15	0.00	0.03	3.50
2017	2.92	0.47	0.00	0.15	0.00	0.03	3.57

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
High Price Case
Electricity Generation Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							3.67
1991							3.22
1992							3.13
1993							3.14
1994							2.65
1995							2.26
1996							2.94
1997	1.99	0.39	0.13	0.17	0.12	0.07	2.87
1998	2.00	0.24	0.13	0.17	0.12	0.06	2.72
1999	1.89	0.23	0.08	0.18	0.12	0.05	2.54
2000	1.94	0.25	0.02	0.18	0.00	0.03	2.41
2001	2.00	0.26	0.02	0.17	0.00	0.03	2.48
2002	2.06	0.27	0.01	0.17	0.00	0.03	2.54
2003	2.10	0.31	0.01	0.17	0.00	0.03	2.62
2004	2.15	0.35	0.00	0.17	0.00	0.03	2.69
2005	2.20	0.36	0.00	0.17	0.00	0.03	2.76
2006	2.25	0.38	0.00	0.16	0.00	0.03	2.82
2007	2.30	0.45	0.00	0.16	0.00	0.03	2.94
2008	2.36	0.47	0.00	0.16	0.00	0.03	3.01
2009	2.41	0.48	0.00	0.16	0.00	0.03	3.08
2010	2.47	0.43	0.00	0.16	0.00	0.03	3.09
2011	2.54	0.44	0.00	0.16	0.00	0.03	3.16
2012	2.60	0.44	0.00	0.16	0.00	0.03	3.23

2013	2.67	0.45	0.00	0.16	0.00	0.03	3.30
2014	2.73	0.45	0.00	0.15	0.00	0.03	3.37
2015	2.79	0.46	0.00	0.15	0.00	0.03	3.44
2016	2.86	0.47	0.00	0.15	0.00	0.03	3.50
2017	2.92	0.47	0.00	0.15	0.00	0.03	3.57

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
High Price Case
Electricity Generation Gas Price Forecast**

1995 \$ per mmBtu

Year	Commodity	Transportation		Total Price
		Interstate	Intrastate	
1990				3.51
1991				3.11
1992				3.00
1993				3.02
1994				2.55
1995				2.20
1996				2.85
1997	1.94	0.38	0.48	2.80
1998	1.96	0.23	0.47	2.66
1999	1.84	0.22	0.41	2.48
2000	1.90	0.24	0.22	2.36
2001	1.95	0.25	0.21	2.42
2002	2.01	0.27	0.21	2.48
2003	2.05	0.30	0.20	2.56
2004	2.09	0.34	0.19	2.62
2005	2.15	0.35	0.19	2.69
2006	2.20	0.37	0.19	2.75
2007	2.25	0.44	0.18	2.87
2008	2.30	0.45	0.18	2.93
2009	2.35	0.47	0.18	3.00
2010	2.41	0.42	0.18	3.02
2011	2.48	0.43	0.18	3.08
2012	2.54	0.43	0.18	3.15

2013	2.60	0.44	0.18	3.22
2014	2.66	0.44	0.18	3.28
2015	2.73	0.45	0.18	3.35
2016	2.79	0.45	0.18	3.42
2017	2.85	0.46	0.17	3.49

The High Price Case was prepared by the California Energy Commission for the *1997 Fuels Report* to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
High Price Case
Electricity Generation Gas Price Forecast**

Nominal \$ per mmBtu

Year	Commodity	Electricity Generation		Total Price	Cogen Gas Price
		Transportation	Interstate		
1990				3.05	3.05
1991				2.81	2.81
1992				2.79	2.79
1993				2.88	2.88
1994				2.49	2.49
1995				2.20	2.20
1996				2.91	2.91
1997	2.01	0.40	0.50	2.91	2.91
1998	2.08	0.25	0.50	2.82	2.82
1999	2.01	0.25	0.45	2.70	2.70
2000	2.12	0.27	0.24	2.64	2.64
2001	2.25	0.29	0.25	2.79	2.79
2002	2.38	0.32	0.25	2.94	2.94
2003	2.50	0.37	0.25	3.12	3.12
2004	2.64	0.43	0.24	3.30	3.30
2005	2.79	0.46	0.25	3.50	3.50
2006	2.96	0.50	0.25	3.70	3.70
2007	3.13	0.62	0.25	4.00	4.00
2008	3.32	0.66	0.26	4.24	4.24
2009	3.51	0.70	0.27	4.49	4.49
2010	3.74	0.65	0.28	4.67	4.67

2011	3.97	0.69	0.29	4.95	4.95
2012	4.22	0.72	0.30	5.23	5.23
2013	4.47	0.75	0.31	5.53	5.53
2014	4.75	0.79	0.32	5.85	5.85
2015	5.03	0.83	0.33	6.19	6.19
2016	5.34	0.87	0.34	6.54	6.54
2017	5.65	0.91	0.35	6.91	6.91

The High Price Case was prepared by the California Energy Commission for the ***1997 Fuels Report*** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

SoCal Gas Service Area
Low Price Case
End-use Natural Gas Price Forecast Summary

1995 \$ per mcf

Year	Core			Noncore					System Avera
	Res	Comm	Indust	Comm	Indust	TEOR	Cogen	EG	
1990	6.40	6.76	5.99	4.28	3.79	3.37	3.67	3.67	4.75
1991	6.99	7.34	7.34	3.91	3.64	2.86	3.22	3.22	4.72
1992	6.82	7.66	6.40	5.00	3.75	2.82	3.13	3.13	4.78
1993	7.24	7.65	6.71	4.98	3.73	3.16	3.14	3.14	5.01
1994	7.03	6.81	6.59	3.32	2.48	2.48	2.65	2.65	4.60
1995	6.69	6.55	5.85	2.39	2.29	2.01	2.26	2.26	4.26
1996	6.73	5.79	4.98	2.72	2.66	2.42	2.94	2.94	4.49
1997	6.77	5.03	4.10	3.04	3.04	2.82	2.86	2.86	4.34
1998	6.27	4.52	3.59	2.56	2.56	2.35	2.34	2.34	3.85
1999	5.72	3.99	3.06	2.04	2.04	1.87	1.78	1.78	3.31
2000	5.60	3.87	2.96	1.92	1.91	1.93	1.64	1.64	3.15
2001	5.57	3.87	2.96	1.96	1.96	1.97	1.68	1.68	3.15
2002	5.53	3.86	2.96	2.00	1.99	2.01	1.72	1.72	3.13
2003	5.55	3.88	2.99	2.03	2.03	2.05	1.76	1.76	3.17
2004	5.43	3.81	2.96	2.06	2.06	2.09	1.79	1.79	3.12
2005	5.47	3.84	2.98	2.10	2.09	2.12	1.83	1.83	3.17
2006	5.35	3.78	2.95	2.12	2.11	2.14	1.85	1.85	3.12
2007	5.32	3.77	2.95	2.19	2.18	2.22	1.93	1.93	3.16
2008	5.28	3.76	2.96	2.21	2.21	2.24	1.96	1.96	3.15
2009	5.37	3.82	3.00	2.25	2.25	2.28	1.99	1.99	3.18
2010	5.34	3.82	3.01	2.24	2.23	2.27	1.98	1.98	3.17
2011	5.30	3.81	3.02	2.26	2.26	2.29	2.00	2.00	3.15
2012	5.33	3.83	3.05	2.29	2.28	2.32	2.03	2.03	3.18
2013	5.30	3.83	3.06	2.31	2.31	2.34	2.06	2.06	3.17
2014	5.32	3.85	3.08	2.33	2.33	2.36	2.08	2.08	3.19
2015	5.30	3.85	3.09	2.36	2.35	2.39	2.11	2.11	3.20
2016	5.29	3.86	3.11	2.39	2.38	2.41	2.14	2.14	3.21
2017	5.29	3.87	3.13	2.41	2.41	2.44	2.17	2.17	3.22

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

The following notes provide basic assumption in preparing the natural gas price forecast.

Notes:

- 1990-1995 total prices are historical , obtained from QFER 7. 1996 is interpolated.
- Commodity: Nontransportation component of the California natural gas border price. Fuel costs are included.
- Transport: Weighted average interstate transport cost to deliver natural gas to the California border. Fuel is not included.
- ITCS An instate charge to recover interstate transition charges resultant from implementation of FERC Order 636.
- SoCal Gas Margin: Distribution and administration costs associated with running the SoCal Gas pipeline system.
- PITCO/POPCO: Global settlement associated with PITCO and POPCO long term supply contracts.
- Regulatory: Includes balancing accounts, social, environmental and other regulatory accounts.

SoCal Gas Service Area
Low Price Case
Residential Core Natural Gas Price Forecast

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							6.40
1991							6.99
1992							6.82
1993							7.24
1994							7.03
1995							6.69
1996							6.73
1997	2.15	0.38	0.03	3.83	0.12	0.26	6.77
1998	1.64	0.38	0.03	3.84	0.12	0.26	6.27
1999	1.13	0.37	0.03	3.81	0.12	0.26	5.72
2000	1.15	0.37	0.03	3.78	0.00	0.26	5.60
2001	1.18	0.36	0.03	3.74	0.00	0.26	5.57
2002	1.21	0.36	0.02	3.68	0.00	0.26	5.53
2003	1.24	0.35	0.02	3.68	0.00	0.26	5.55
2004	1.26	0.35	0.01	3.54	0.00	0.26	5.43
2005	1.28	0.35	0.01	3.57	0.00	0.26	5.47
2006	1.30	0.34	0.01	3.44	0.00	0.26	5.35
2007	1.34	0.33	0.00	3.40	0.00	0.26	5.32
2008	1.36	0.33	0.00	3.33	0.00	0.26	5.28
2009	1.38	0.34	0.00	3.39	0.00	0.26	5.37
2010	1.41	0.33	0.00	3.34	0.00	0.26	5.34
2011	1.44	0.33	0.00	3.28	0.00	0.26	5.30
2012	1.46	0.34	0.00	3.27	0.00	0.26	5.33
2013	1.49	0.34	0.00	3.22	0.00	0.26	5.30
2014	1.51	0.34	0.00	3.21	0.00	0.26	5.32
2015	1.54	0.34	0.00	3.16	0.00	0.26	5.30
2016	1.56	0.34	0.00	3.13	0.00	0.26	5.29
2017	1.59	0.34	0.00	3.10	0.00	0.26	5.29

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
Price Case
Commercial Core End-Use Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							6.76
1991							7.34
1992							7.66
1993							7.65
1994							6.81
1995							6.55
1996							5.79
1997	2.15	0.38	0.03	2.14	0.12	0.21	5.03
1998	1.64	0.38	0.03	2.15	0.12	0.21	4.52
1999	1.13	0.37	0.03	2.13	0.12	0.21	3.99
2000	1.15	0.37	0.03	2.11	0.00	0.21	3.87
2001	1.18	0.36	0.03	2.09	0.00	0.21	3.87
2002	1.21	0.36	0.02	2.06	0.00	0.21	3.86
2003	1.24	0.35	0.02	2.05	0.00	0.21	3.88
2004	1.26	0.35	0.01	1.98	0.00	0.21	3.81
2005	1.28	0.35	0.01	1.99	0.00	0.21	3.84
2006	1.30	0.34	0.01	1.92	0.00	0.21	3.78
2007	1.34	0.33	0.00	1.90	0.00	0.21	3.77
2008	1.36	0.33	0.00	1.86	0.00	0.21	3.76
2009	1.38	0.34	0.00	1.90	0.00	0.21	3.82
2010	1.41	0.33	0.00	1.87	0.00	0.21	3.82
2011	1.44	0.33	0.00	1.83	0.00	0.21	3.81
2012	1.46	0.34	0.00	1.83	0.00	0.21	3.83
2013	1.49	0.34	0.00	1.80	0.00	0.21	3.83
2014	1.51	0.34	0.00	1.79	0.00	0.21	3.85
2015	1.54	0.34	0.00	1.77	0.00	0.21	3.85
2016	1.56	0.34	0.00	1.75	0.00	0.21	3.86
2017	1.59	0.34	0.00	1.73	0.00	0.21	3.87

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent

potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
Low Price Case
Industrial Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							5.99
1991							7.34
1992							6.40
1993							6.71
1994							6.59
1995							5.85
1996							4.98
1997	2.15	0.38	0.03	1.16	0.12	0.25	4.10
1998	1.64	0.38	0.03	1.17	0.12	0.25	3.59
1999	1.13	0.37	0.03	1.16	0.12	0.25	3.06
2000	1.15	0.37	0.03	1.15	0.00	0.25	2.96
2001	1.18	0.36	0.03	1.14	0.00	0.25	2.96
2002	1.21	0.36	0.02	1.12	0.00	0.25	2.96
2003	1.24	0.35	0.02	1.12	0.00	0.25	2.99
2004	1.26	0.35	0.01	1.08	0.00	0.25	2.96
2005	1.28	0.35	0.01	1.08	0.00	0.25	2.98
2006	1.30	0.34	0.01	1.04	0.00	0.25	2.95
2007	1.34	0.33	0.00	1.03	0.00	0.25	2.95
2008	1.36	0.33	0.00	1.01	0.00	0.25	2.96
2009	1.38	0.34	0.00	1.03	0.00	0.25	3.00
2010	1.41	0.33	0.00	1.02	0.00	0.25	3.01
2011	1.44	0.33	0.00	1.00	0.00	0.25	3.02
2012	1.46	0.34	0.00	0.99	0.00	0.25	3.05
2013	1.49	0.34	0.00	0.98	0.00	0.25	3.06
2014	1.51	0.34	0.00	0.98	0.00	0.25	3.08
2015	1.54	0.34	0.00	0.96	0.00	0.25	3.09
2016	1.56	0.34	0.00	0.95	0.00	0.25	3.11
2017	1.59	0.34	0.00	0.94	0.00	0.25	3.13

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
Low Price Case
Commercial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							4.28
1991							3.91
1992							5.00
1993							4.98
1994							3.32
1995							2.39
1996							2.72
1997	2.19	0.13	0.14	0.42	0.12	0.06	3.04
1998	1.65	0.18	0.13	0.43	0.12	0.06	2.56
1999	1.16	0.19	0.10	0.43	0.12	0.06	2.04
2000	1.18	0.22	0.03	0.43	0.00	0.06	1.92
2001	1.21	0.24	0.03	0.43	0.00	0.06	1.96
2002	1.23	0.26	0.02	0.43	0.00	0.06	2.00
2003	1.26	0.27	0.02	0.43	0.00	0.06	2.03
2004	1.28	0.29	0.01	0.42	0.00	0.06	2.06
2005	1.30	0.31	0.01	0.42	0.00	0.06	2.10
2006	1.32	0.33	0.01	0.40	0.00	0.06	2.12
2007	1.34	0.40	0.00	0.40	0.00	0.06	2.19
2008	1.36	0.41	0.00	0.39	0.00	0.06	2.21
2009	1.38	0.42	0.00	0.40	0.00	0.06	2.25
2010	1.41	0.38	0.00	0.39	0.00	0.06	2.24
2011	1.43	0.39	0.00	0.39	0.00	0.06	2.26
2012	1.45	0.39	0.00	0.39	0.00	0.06	2.29
2013	1.47	0.40	0.00	0.38	0.00	0.06	2.31
2014	1.50	0.40	0.00	0.38	0.00	0.06	2.33
2015	1.52	0.40	0.00	0.38	0.00	0.06	2.36
2016	1.55	0.41	0.00	0.38	0.00	0.06	2.39
2017	1.57	0.41	0.00	0.37	0.00	0.06	2.41

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
Low Price Case
Industrial NonCore End-Use Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges			Total	
	Commodity	Transport	ITCS	Margin	Pitco/Popc		
1990						3.79	
1991						3.64	
1992						3.75	
1993						3.73	
1994						2.48	
1995						2.29	
1996						2.66	
1997	2.19	0.13	0.14	0.41	0.12	0.06	3.04
1998	1.65	0.18	0.13	0.42	0.12	0.06	2.56
1999	1.16	0.19	0.10	0.43	0.12	0.06	2.04
2000	1.18	0.22	0.03	0.43	0.00	0.06	1.91
2001	1.21	0.24	0.03	0.43	0.00	0.06	1.96
2002	1.23	0.26	0.02	0.42	0.00	0.06	1.99
2003	1.26	0.27	0.02	0.42	0.00	0.06	2.03
2004	1.28	0.29	0.01	0.41	0.00	0.06	2.06
2005	1.30	0.31	0.01	0.41	0.00	0.06	2.09
2006	1.32	0.33	0.01	0.40	0.00	0.06	2.11
2007	1.34	0.40	0.00	0.39	0.00	0.06	2.18
2008	1.36	0.41	0.00	0.39	0.00	0.06	2.21
2009	1.38	0.42	0.00	0.40	0.00	0.06	2.25
2010	1.41	0.38	0.00	0.39	0.00	0.06	2.23
2011	1.43	0.39	0.00	0.38	0.00	0.06	2.26
2012	1.45	0.39	0.00	0.38	0.00	0.06	2.28
2013	1.47	0.40	0.00	0.38	0.00	0.06	2.31
2014	1.50	0.40	0.00	0.38	0.00	0.06	2.33
2015	1.52	0.40	0.00	0.38	0.00	0.06	2.35

2016	1.55	0.41	0.00	0.37	0.00	0.06	2.38
2017	1.57	0.41	0.00	0.37	0.00	0.06	2.41

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
Low Price Case
TEOR Nonocre Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges			Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco Regulator	
1990						3.37
1991						2.86
1992						2.82
1993						3.16
1994						2.48
1995						2.01
1996						2.42
1997	2.19	0.13	0.00	0.51	0.00	2.82
1998	1.65	0.18	0.00	0.52	0.00	2.35
1999	1.16	0.19	0.00	0.53	0.00	1.87
2000	1.18	0.22	0.00	0.53	0.00	1.93
2001	1.21	0.24	0.00	0.53	0.00	1.97
2002	1.23	0.26	0.00	0.52	0.00	2.01
2003	1.26	0.27	0.00	0.52	0.00	2.05
2004	1.28	0.29	0.00	0.51	0.00	2.09
2005	1.30	0.31	0.00	0.51	0.00	2.12
2006	1.32	0.33	0.00	0.49	0.00	2.14
2007	1.34	0.40	0.00	0.48	0.00	2.22
2008	1.36	0.41	0.00	0.48	0.00	2.24
2009	1.38	0.42	0.00	0.49	0.00	2.28
2010	1.41	0.38	0.00	0.48	0.00	2.27
2011	1.43	0.39	0.00	0.47	0.00	2.29
2012	1.45	0.39	0.00	0.47	0.00	2.32
2013	1.47	0.40	0.00	0.47	0.00	2.34

2014	1.50	0.40	0.00	0.47	0.00	0.00	2.36
2015	1.52	0.40	0.00	0.46	0.00	0.00	2.39
2016	1.55	0.41	0.00	0.46	0.00	0.00	2.41
2017	1.57	0.41	0.00	0.46	0.00	0.00	2.44

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
Low Price Case
Cogen Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							3.67
1991							3.22
1992							3.13
1993							3.14
1994							2.65
1995							2.26
1996							2.94
1997	1.99	0.38	0.14	0.17	0.12	0.07	2.86
1998	1.64	0.21	0.13	0.18	0.12	0.06	2.34
1999	1.16	0.19	0.10	0.18	0.12	0.05	1.78
2000	1.18	0.22	0.03	0.18	0.00	0.03	1.64
2001	1.21	0.24	0.03	0.18	0.00	0.03	1.68
2002	1.23	0.26	0.02	0.18	0.00	0.03	1.72
2003	1.26	0.27	0.02	0.18	0.00	0.03	1.76
2004	1.28	0.29	0.01	0.17	0.00	0.03	1.79
2005	1.30	0.31	0.01	0.17	0.00	0.03	1.83
2006	1.32	0.33	0.01	0.17	0.00	0.03	1.85
2007	1.34	0.40	0.00	0.17	0.00	0.03	1.93
2008	1.36	0.41	0.00	0.16	0.00	0.03	1.96
2009	1.38	0.42	0.00	0.17	0.00	0.03	1.99
2010	1.41	0.38	0.00	0.16	0.00	0.03	1.98
2011	1.43	0.39	0.00	0.16	0.00	0.03	2.00

2012	1.45	0.39	0.00	0.16	0.00	0.03	2.03
2013	1.47	0.40	0.00	0.16	0.00	0.03	2.06
2014	1.50	0.40	0.00	0.16	0.00	0.03	2.08
2015	1.52	0.40	0.00	0.16	0.00	0.03	2.11
2016	1.55	0.41	0.00	0.16	0.00	0.03	2.14
2017	1.57	0.41	0.00	0.16	0.00	0.03	2.17

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
Low Price Case
Electricity Generation Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SoCal Gas Instate Charges			Total	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
1990						3.67	
1991						3.22	
1992						3.13	
1993						3.14	
1994						2.65	
1995						2.26	
1996						2.94	
1997	1.99	0.38	0.14	0.17	0.12	0.07	2.86
1998	1.64	0.21	0.13	0.18	0.12	0.06	2.34
1999	1.16	0.19	0.10	0.18	0.12	0.05	1.78
2000	1.18	0.22	0.03	0.18	0.00	0.03	1.64
2001	1.21	0.24	0.03	0.18	0.00	0.03	1.68
2002	1.23	0.26	0.02	0.18	0.00	0.03	1.72
2003	1.26	0.27	0.02	0.18	0.00	0.03	1.76
2004	1.28	0.29	0.01	0.17	0.00	0.03	1.79
2005	1.30	0.31	0.01	0.17	0.00	0.03	1.83
2006	1.32	0.33	0.01	0.17	0.00	0.03	1.85
2007	1.34	0.40	0.00	0.17	0.00	0.03	1.93
2008	1.36	0.41	0.00	0.16	0.00	0.03	1.96
2009	1.38	0.42	0.00	0.17	0.00	0.03	1.99

2010	1.41	0.38	0.00	0.16	0.00	0.03	1.98
2011	1.43	0.39	0.00	0.16	0.00	0.03	2.00
2012	1.45	0.39	0.00	0.16	0.00	0.03	2.03
2013	1.47	0.40	0.00	0.16	0.00	0.03	2.06
2014	1.50	0.40	0.00	0.16	0.00	0.03	2.08
2015	1.52	0.40	0.00	0.16	0.00	0.03	2.11
2016	1.55	0.41	0.00	0.16	0.00	0.03	2.14
2017	1.57	0.41	0.00	0.16	0.00	0.03	2.17

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
Low Price Case
Electricity Generation Gas Price Forecast**

1995 \$ per mmBtu

Year	Commodity	Transportation		Total Price
		Interstate	Intrastate	
1990				3.51
1991				3.11
1992				3.00
1993				3.02
1994				2.55
1995				2.20
1996				2.85
1997	1.94	0.37	0.48	2.79
1998	1.60	0.21	0.48	2.28
1999	1.13	0.18	0.43	1.74
2000	1.15	0.21	0.23	1.60
2001	1.18	0.24	0.23	1.64
2002	1.20	0.25	0.22	1.68
2003	1.23	0.26	0.22	1.71
2004	1.25	0.29	0.21	1.75
2005	1.27	0.30	0.21	1.78
2006	1.29	0.32	0.20	1.81
2007	1.31	0.39	0.19	1.88
2008	1.33	0.40	0.19	1.91
2009	1.35	0.41	0.19	1.94

2010	1.37	0.37	0.19	1.93
2011	1.39	0.38	0.18	1.95
2012	1.42	0.38	0.18	1.98
2013	1.44	0.39	0.18	2.01
2014	1.46	0.39	0.18	2.03
2015	1.48	0.39	0.18	2.06
2016	1.51	0.40	0.18	2.09
2017	1.53	0.40	0.18	2.11

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SoCal Gas Service Area
Low Price Case
Electricity Generation Gas Price Forecast**

Nominal \$ per mmBtu

Year	Commodity	Electricity Generation		Total	Cogen
		Transportation	Interstate		
Year	Commodity	Interstate	Intrastate	Total	Gas
1990				3.05	3.05
1991				2.81	2.81
1992				2.79	2.79
1993				2.88	2.88
1994				2.49	2.49
1995				2.20	2.20
1996				2.91	2.91
1997	2.02	0.38	0.50	2.90	2.90
1998	1.70	0.22	0.51	2.43	2.43
1999	1.23	0.20	0.47	1.90	1.90
2000	1.29	0.24	0.26	1.79	1.79
2001	1.35	0.27	0.26	1.89	1.89
2002	1.43	0.30	0.26	1.98	1.98
2003	1.50	0.32	0.27	2.09	2.09
2004	1.58	0.36	0.26	2.20	2.20
2005	1.65	0.39	0.27	2.32	2.32
2006	1.74	0.43	0.27	2.44	2.44
2007	1.82	0.54	0.26	2.62	2.62

2008	1.91	0.57	0.27	2.75	2.75
2009	2.01	0.61	0.28	2.90	2.90
2010	2.12	0.58	0.29	2.99	2.99
2011	2.24	0.60	0.30	3.14	3.14
2012	2.35	0.63	0.31	3.29	3.29
2013	2.47	0.66	0.31	3.45	3.45
2014	2.60	0.69	0.32	3.62	3.62
2015	2.74	0.73	0.33	3.80	3.80
2016	2.89	0.76	0.34	3.99	3.99
2017	3.04	0.80	0.35	4.19	4.19

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

SDG&E Service Area
Base Case
End-Use Natural Gas Price Forecast Summary

1995 \$ per mcf

Year	Core			Noncore				System Average	
	Res	Comm	Indust	Comm	Indust	TEOR	Cogen	EG	
1990	6.43	6.61	6.40	4.41	4.41	0.00	3.71	3.71	5.06
1991	6.05	6.13	6.13	3.88	3.88	0.00	3.25	3.25	4.61
1992	6.45	6.67	6.67	4.02	4.02	0.00	3.20	3.20	4.71
1993	6.85	6.87	6.44	3.81	3.96	0.00	3.33	3.33	4.97
1994	6.89	6.71	5.53	3.60	3.90	0.00	3.04	3.04	4.88
1995	6.44	6.32	5.31	2.71	2.74	0.00	2.18	2.18	4.01
1996	6.66	6.25	5.01	3.01	3.03	0.00	2.53	2.53	4.41
1997	6.88	6.18	4.72	3.32	3.32	0.00	3.07	3.07	4.56
1998	6.51	5.82	4.38	2.98	2.98	0.00	2.81	2.81	4.20
1999	6.23	5.54	4.08	2.62	2.62	0.00	2.41	2.41	3.94
2000	6.24	5.55	4.11	2.60	2.60	0.00	2.39	2.39	3.89
2001	6.29	5.60	4.16	2.64	2.64	0.00	2.43	2.43	3.94
2002	6.10	5.44	4.08	2.68	2.68	0.00	2.47	2.47	3.62
2003	6.17	5.51	4.14	2.73	2.73	0.00	2.50	2.50	3.73
2004	6.14	5.49	4.15	2.77	2.77	0.00	2.55	2.55	3.72
2005	6.15	5.51	4.18	2.80	2.80	0.00	2.59	2.58	3.78
2006	6.08	5.45	4.16	2.83	2.83	0.00	2.62	2.61	3.72
2007	6.04	5.42	4.16	2.86	2.86	0.00	2.65	2.65	3.70
2008	6.02	5.41	4.18	2.91	2.91	0.00	2.71	2.71	3.71
2009	6.03	5.42	4.20	2.94	2.94	0.00	2.74	2.74	3.78
2010	5.98	5.38	4.18	2.94	2.94	0.00	2.74	2.74	3.76
2011	5.95	5.36	4.19	2.98	2.98	0.00	2.79	2.79	3.76
2012	5.94	5.36	4.21	3.02	3.02	0.00	2.83	2.83	3.78
2013	5.93	5.36	4.23	3.06	3.06	0.00	2.88	2.87	3.79
2014	5.93	5.36	4.25	3.10	3.10	0.00	2.91	2.91	3.82
2015	5.93	5.37	4.27	3.13	3.13	0.00	2.95	2.95	3.86
2016	5.93	5.38	4.29	3.17	3.17	0.00	3.00	2.99	3.88
2017	5.92	5.37	4.31	3.21	3.21	0.00	3.03	3.03	3.90

Adopted March 18, 1998
by the California Energy Commission for the **1997 Fuels Report**.

The following notes provide basic assumption in preparing the natural gas price forecast.

Notes:

- 1990-1995 total prices are historical , obtained from QFER 7. 1996 is interpolated.
- Commodity: Nontransportation component of the California natural gas border price. Fuel costs are included.
- Transport: Weighted average interstate transport cost to deliver natural gas to the California border. Fuel is not included.
- ITCS An instate charge to recover interstate transition charges resultant from implementation of FERC Order 636.
- SDG&E Margin: Distribution and administration costs associated with running the SDG&E pipeline system and transmission charges to SoCal Gas.
- PITCO/POPCO: Global settlement associated with PITCO and POPCO long term supply contracts.
- Regulatory: Includes balancing accounts, social, environmental and other regulatory accounts.

**SDG&E Service Area
Base Case
Residential Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total y	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
1990						6.43	
1991						6.05	
1992						6.45	
1993						6.85	
1994						6.89	
1995						6.44	
1996						6.66	
1997	2.09	0.24	0.03	4.24	0.00	0.27	6.88
1998	1.74	0.28	0.03	4.19	0.00	0.27	6.51
1999	1.42	0.29	0.03	4.21	0.00	0.27	6.23
2000	1.46	0.30	0.03	4.17	0.00	0.27	6.24
2001	1.50	0.31	0.03	4.18	0.00	0.27	6.29
2002	1.55	0.31	0.02	3.95	0.00	0.27	6.10
2003	1.59	0.33	0.02	3.96	0.00	0.27	6.17
2004	1.62	0.35	0.01	3.88	0.00	0.27	6.14
2005	1.64	0.37	0.01	3.86	0.00	0.27	6.15
2006	1.67	0.38	0.01	3.75	0.00	0.27	6.08
2007	1.70	0.41	0.00	3.66	0.00	0.27	6.04
2008	1.73	0.45	0.00	3.57	0.00	0.27	6.02
2009	1.76	0.46	0.00	3.54	0.00	0.27	6.03
2010	1.80	0.42	0.00	3.48	0.00	0.27	5.98
2011	1.85	0.43	0.00	3.40	0.00	0.27	5.95
2012	1.89	0.44	0.00	3.34	0.00	0.27	5.94
2013	1.93	0.45	0.00	3.28	0.00	0.27	5.93
2014	1.97	0.46	0.00	3.23	0.00	0.27	5.93
2015	2.01	0.46	0.00	3.19	0.00	0.27	5.93
2016	2.05	0.47	0.00	3.14	0.00	0.27	5.93
2017	2.09	0.47	0.00	3.08	0.00	0.27	5.92

Adopted March 18, 1998
by the California Energy Commission for the **1997 Fuels Report**.

**SDG&E Service Area
Base Case
Commercial Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							6.61
1991							6.13
1992							6.67
1993							6.87
1994							6.71
1995							6.32
1996							6.25
1997	2.09	0.24	0.03	3.70	0.00	0.12	6.18
1998	1.74	0.28	0.03	3.65	0.00	0.12	5.82
1999	1.42	0.29	0.03	3.67	0.00	0.12	5.54
2000	1.46	0.30	0.03	3.64	0.00	0.12	5.55
2001	1.50	0.31	0.03	3.64	0.00	0.12	5.60
2002	1.55	0.31	0.02	3.44	0.00	0.12	5.44
2003	1.59	0.33	0.02	3.45	0.00	0.12	5.51
2004	1.62	0.35	0.01	3.38	0.00	0.12	5.49
2005	1.64	0.37	0.01	3.36	0.00	0.12	5.51
2006	1.67	0.38	0.01	3.27	0.00	0.12	5.45
2007	1.70	0.41	0.00	3.19	0.00	0.12	5.42
2008	1.73	0.45	0.00	3.11	0.00	0.12	5.41
2009	1.76	0.46	0.00	3.08	0.00	0.12	5.42
2010	1.80	0.42	0.00	3.03	0.00	0.12	5.38
2011	1.85	0.43	0.00	2.96	0.00	0.12	5.36
2012	1.89	0.44	0.00	2.91	0.00	0.12	5.36
2013	1.93	0.45	0.00	2.86	0.00	0.12	5.36
2014	1.97	0.46	0.00	2.81	0.00	0.12	5.36
2015	2.01	0.46	0.00	2.78	0.00	0.12	5.37
2016	2.05	0.47	0.00	2.73	0.00	0.12	5.38
2017	2.09	0.47	0.00	2.69	0.00	0.12	5.37

Adopted March 18, 1998
by the California Energy Commission for the **1997 Fuels Report**.

**SDG&E Service Area
Base Case
Industrial Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
1990						6.40	
1991						6.13	
1992						6.67	
1993						6.44	
1994						5.53	
1995						5.31	
1996						5.01	
1997	2.09	0.24	0.03	2.23	0.00	0.12	4.72
1998	1.74	0.28	0.03	2.20	0.00	0.12	4.38
1999	1.42	0.29	0.03	2.21	0.00	0.12	4.08
2000	1.46	0.30	0.03	2.20	0.00	0.12	4.11
2001	1.50	0.31	0.03	2.20	0.00	0.12	4.16
2002	1.55	0.31	0.02	2.08	0.00	0.12	4.08
2003	1.59	0.33	0.02	2.08	0.00	0.12	4.14
2004	1.62	0.35	0.01	2.04	0.00	0.12	4.15
2005	1.64	0.37	0.01	2.03	0.00	0.12	4.18
2006	1.67	0.38	0.01	1.97	0.00	0.12	4.16
2007	1.70	0.41	0.00	1.92	0.00	0.12	4.16
2008	1.73	0.45	0.00	1.88	0.00	0.12	4.18
2009	1.76	0.46	0.00	1.86	0.00	0.12	4.20
2010	1.80	0.42	0.00	1.83	0.00	0.12	4.18
2011	1.85	0.43	0.00	1.79	0.00	0.12	4.19
2012	1.89	0.44	0.00	1.76	0.00	0.12	4.21
2013	1.93	0.45	0.00	1.72	0.00	0.12	4.23
2014	1.97	0.46	0.00	1.70	0.00	0.12	4.25
2015	2.01	0.46	0.00	1.68	0.00	0.12	4.27
2016	2.05	0.47	0.00	1.65	0.00	0.12	4.29
2017	2.09	0.47	0.00	1.62	0.00	0.12	4.31

Adopted March 18, 1998

by the California Energy Commission for the ***1997 Fuels Report***.

**SDG&E Service Area
Base Case
Commercial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
y							
1990						4.41	
1991						3.88	
1992						4.02	
1993						3.81	
1994						3.60	
1995						2.71	
1996						3.01	
1997	2.09	0.24	0.15	0.81	0.00	0.03	3.32
1998	1.74	0.28	0.14	0.79	0.00	0.03	2.98
1999	1.42	0.29	0.10	0.77	0.00	0.03	2.62
2000	1.46	0.30	0.03	0.77	0.00	0.03	2.60
2001	1.50	0.31	0.03	0.77	0.00	0.03	2.64
2002	1.55	0.31	0.02	0.77	0.00	0.03	2.68
2003	1.59	0.33	0.02	0.76	0.00	0.03	2.73
2004	1.62	0.35	0.01	0.75	0.00	0.03	2.77
2005	1.64	0.37	0.01	0.74	0.00	0.03	2.80
2006	1.67	0.38	0.01	0.73	0.00	0.03	2.83
2007	1.70	0.41	0.00	0.72	0.00	0.03	2.86
2008	1.73	0.45	0.00	0.70	0.00	0.03	2.91
2009	1.76	0.46	0.00	0.69	0.00	0.03	2.94
2010	1.80	0.42	0.00	0.68	0.00	0.03	2.94
2011	1.85	0.43	0.00	0.67	0.00	0.03	2.98
2012	1.89	0.44	0.00	0.66	0.00	0.03	3.02
2013	1.93	0.45	0.00	0.65	0.00	0.03	3.06
2014	1.97	0.46	0.00	0.64	0.00	0.03	3.10
2015	2.01	0.46	0.00	0.63	0.00	0.03	3.13
2016	2.05	0.47	0.00	0.62	0.00	0.03	3.17
2017	2.09	0.47	0.00	0.61	0.00	0.03	3.21

Adopted March 18, 1998
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**SDG&E Service Area
Base Case
Industrial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
1990						4.41	
1991						3.88	
1992						4.02	
1993						3.96	
1994						3.90	
1995						2.74	
1996						3.03	
1997	2.09	0.24	0.15	0.81	0.00	0.03	3.32
1998	1.74	0.28	0.14	0.79	0.00	0.03	2.98
1999	1.42	0.29	0.10	0.77	0.00	0.03	2.62
2000	1.46	0.30	0.03	0.77	0.00	0.03	2.60
2001	1.50	0.31	0.03	0.77	0.00	0.03	2.64
2002	1.55	0.31	0.02	0.77	0.00	0.03	2.68
2003	1.59	0.33	0.02	0.76	0.00	0.03	2.73
2004	1.62	0.35	0.01	0.75	0.00	0.03	2.77
2005	1.64	0.37	0.01	0.74	0.00	0.03	2.80
2006	1.67	0.38	0.01	0.73	0.00	0.03	2.83
2007	1.70	0.41	0.00	0.72	0.00	0.03	2.86
2008	1.73	0.45	0.00	0.70	0.00	0.03	2.91
2009	1.76	0.46	0.00	0.69	0.00	0.03	2.94
2010	1.80	0.42	0.00	0.68	0.00	0.03	2.94
2011	1.85	0.43	0.00	0.67	0.00	0.03	2.98
2012	1.89	0.44	0.00	0.66	0.00	0.03	3.02
2013	1.93	0.45	0.00	0.65	0.00	0.03	3.06
2014	1.97	0.46	0.00	0.64	0.00	0.03	3.10
2015	2.01	0.46	0.00	0.63	0.00	0.03	3.13
2016	2.05	0.47	0.00	0.62	0.00	0.03	3.17
2017	2.09	0.47	0.00	0.61	0.00	0.03	3.21

Adopted March 18, 1998
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**SDG&E Service Area
Base Case
Cogen Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							3.71
1991							3.25
1992							3.20
1993							3.33
1994							3.04
1995							2.18
1996							2.53
1997	2.09	0.24	0.15	0.49	0.00	0.10	3.07
1998	1.74	0.28	0.14	0.55	0.00	0.10	2.81
1999	1.42	0.29	0.10	0.49	0.00	0.10	2.41
2000	1.46	0.30	0.03	0.49	0.00	0.10	2.39
2001	1.50	0.31	0.03	0.49	0.00	0.10	2.43
2002	1.55	0.31	0.02	0.49	0.00	0.10	2.47
2003	1.59	0.33	0.02	0.47	0.00	0.10	2.50
2004	1.62	0.35	0.01	0.47	0.00	0.10	2.55
2005	1.64	0.37	0.01	0.46	0.00	0.10	2.59
2006	1.67	0.38	0.01	0.45	0.00	0.10	2.62
2007	1.70	0.41	0.00	0.44	0.00	0.10	2.65
2008	1.73	0.45	0.00	0.43	0.00	0.10	2.71
2009	1.76	0.46	0.00	0.42	0.00	0.10	2.74
2010	1.80	0.42	0.00	0.41	0.00	0.10	2.74
2011	1.85	0.43	0.00	0.41	0.00	0.10	2.79
2012	1.89	0.44	0.00	0.40	0.00	0.10	2.83
2013	1.93	0.45	0.00	0.39	0.00	0.10	2.88
2014	1.97	0.46	0.00	0.39	0.00	0.10	2.91
2015	2.01	0.46	0.00	0.38	0.00	0.10	2.95
2016	2.05	0.47	0.00	0.37	0.00	0.10	3.00
2017	2.09	0.47	0.00	0.37	0.00	0.10	3.03

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**SDG&E Service Area
Base Case**
Electricity Generation Noncore Natural Gas Price Forecast

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
1990						3.71	
1991						3.25	
1992						3.20	
1993						3.33	
1994						3.04	
1995						2.18	
1996						2.53	
1997	2.09	0.24	0.15	0.49	0.00	0.10	3.07
1998	1.74	0.28	0.14	0.55	0.00	0.10	2.81
1999	1.42	0.29	0.10	0.49	0.00	0.10	2.41
2000	1.46	0.30	0.03	0.49	0.00	0.10	2.39
2001	1.50	0.31	0.03	0.49	0.00	0.10	2.43
2002	1.55	0.31	0.02	0.49	0.00	0.10	2.47
2003	1.59	0.33	0.02	0.47	0.00	0.10	2.50
2004	1.62	0.35	0.01	0.47	0.00	0.10	2.55
2005	1.64	0.37	0.01	0.46	0.00	0.10	2.58
2006	1.67	0.38	0.01	0.45	0.00	0.10	2.61
2007	1.70	0.41	0.00	0.44	0.00	0.10	2.65
2008	1.73	0.45	0.00	0.43	0.00	0.10	2.71
2009	1.76	0.46	0.00	0.42	0.00	0.10	2.74
2010	1.80	0.42	0.00	0.41	0.00	0.10	2.74
2011	1.85	0.43	0.00	0.41	0.00	0.10	2.79
2012	1.89	0.44	0.00	0.40	0.00	0.10	2.83
2013	1.93	0.45	0.00	0.39	0.00	0.10	2.87
2014	1.97	0.46	0.00	0.39	0.00	0.10	2.91
2015	2.01	0.46	0.00	0.38	0.00	0.10	2.95
2016	2.05	0.47	0.00	0.37	0.00	0.10	2.99
2017	2.09	0.47	0.00	0.37	0.00	0.10	3.03

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by the California Energy Commission for the ***1997 Fuels Report***.

**SDG&E Service Area
Base Case
Electricity Generation Natural Gas Price Forecast**

1995 \$ per mmBtu

Year	Commodity	Transportation		Total Price
		Interstate	Intrastate	
1990			2.11	3.60
1991			2.03	3.16
1992			2.10	3.10
1993			2.12	3.24
1994			2.09	2.98
1995			2.09	2.14
1996			1.39	2.50
1997	2.04	0.24	0.72	3.00
1998	1.70	0.28	0.77	2.74
1999	1.39	0.29	0.67	2.35
2000	1.43	0.30	0.61	2.33
2001	1.46	0.31	0.60	2.37
2002	1.51	0.30	0.59	2.41
2003	1.55	0.32	0.57	2.44
2004	1.58	0.34	0.56	2.49
2005	1.60	0.36	0.55	2.52
2006	1.63	0.38	0.54	2.55
2007	1.66	0.40	0.53	2.59
2008	1.69	0.43	0.51	2.64
2009	1.72	0.45	0.51	2.67
2010	1.76	0.41	0.50	2.67
2011	1.80	0.42	0.49	2.72
2012	1.84	0.43	0.49	2.76
2013	1.88	0.44	0.48	2.80
2014	1.92	0.45	0.47	2.84
2015	1.96	0.45	0.47	2.88
2016	2.00	0.46	0.46	2.92
2017	2.04	0.46	0.46	2.96

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by the California Energy Commission for the ***1997 Fuels Report***.

**SDG&E Service Area
Base Case
Electricity Generation Gas Price Forecast**

Nominal \$ per mmBtu

Year	Commodity	Electricity Generation		Total Price	Cogen Gas Price
		Transportation	Interstate		
1990			1.84	3.13	3.13
1991			1.83	2.86	2.86
1992			1.95	2.88	2.88
1993			2.02	3.09	3.09
1994			2.04	2.90	2.90
1995			2.09	2.14	2.14
1996			1.42	2.55	2.55
1997	2.11	0.25	0.75	3.12	3.12
1998	1.80	0.29	0.82	2.91	2.91
1999	1.51	0.31	0.73	2.56	2.56
2000	1.60	0.33	0.68	2.61	2.61
2001	1.68	0.35	0.69	2.73	2.73
2002	1.79	0.36	0.70	2.85	2.85
2003	1.89	0.39	0.70	2.98	2.98
2004	1.99	0.43	0.71	3.13	3.13
2005	2.09	0.47	0.72	3.28	3.28
2006	2.20	0.51	0.73	3.43	3.43
2007	2.31	0.56	0.73	3.61	3.61
2008	2.44	0.63	0.74	3.81	3.81
2009	2.57	0.67	0.76	3.99	3.99
2010	2.72	0.64	0.78	4.14	4.14
2011	2.89	0.68	0.79	4.36	4.36
2012	3.06	0.71	0.81	4.58	4.58
2013	3.24	0.76	0.82	4.82	4.82
2014	3.42	0.79	0.84	5.06	5.06
2015	3.62	0.83	0.86	5.31	5.31
2016	3.82	0.88	0.89	5.59	5.59
2017	4.04	0.92	0.91	5.86	5.86

Adopted March 18, 1998
by the California Energy Commission for the ***1997 Fuels Report***.

SDG&E Service Area
High Price Case
End-Use Natural Gas Price Forecast Summary

1995 \$ per mcf

Year	Core			Noncore				System Average	
	Res	Comm	Indust	Comm	Indust	TEOR	Cogen	EG	Average
1990	6.43	6.61	6.40	4.41	4.41	0.00	3.71	3.71	5.06
1991	6.05	6.13	6.13	3.88	3.88	0.00	3.25	3.25	4.61
1992	6.45	6.67	6.67	4.02	4.02	0.00	3.20	3.20	4.71
1993	6.85	6.87	6.44	3.81	3.96	0.00	3.33	3.33	4.97
1994	6.89	6.71	5.53	3.60	3.90	0.00	3.04	3.04	4.88
1995	6.44	6.32	5.31	2.71	2.74	0.00	2.18	2.18	4.01
1996	6.66	6.25	5.02	3.01	3.03	0.00	2.53	2.53	4.41
1997	6.88	6.19	4.72	3.32	3.32	0.00	3.07	3.07	4.56
1998	6.69	6.00	4.56	3.15	3.15	0.00	2.99	2.99	4.37
1999	6.59	5.89	4.44	2.97	2.97	0.00	2.76	2.76	4.29
2000	6.63	5.94	4.49	2.97	2.97	0.00	2.76	2.76	4.30
2001	6.73	6.04	4.57	3.04	3.04	0.00	2.82	2.82	4.42
2002	6.55	5.89	4.51	3.09	3.09	0.00	2.88	2.88	4.09
2003	6.67	6.00	4.60	3.16	3.16	0.00	2.94	2.93	4.27
2004	6.66	6.00	4.63	3.22	3.22	0.00	3.00	3.00	4.27
2005	6.74	6.08	4.70	3.28	3.28	0.00	3.06	3.05	4.42
2006	6.71	6.06	4.72	3.33	3.33	0.00	3.12	3.11	4.41
2007	6.76	6.12	4.80	3.44	3.44	0.00	3.22	3.22	4.47
2008	6.76	6.12	4.83	3.49	3.49	0.00	3.28	3.27	4.51
2009	6.82	6.19	4.89	3.55	3.55	0.00	3.34	3.33	4.67
2010	6.83	6.20	4.91	3.57	3.57	0.00	3.36	3.35	4.75
2011	6.85	6.22	4.95	3.63	3.63	0.00	3.42	3.42	4.80
2012	6.90	6.28	5.01	3.69	3.69	0.00	3.48	3.48	4.92
2013	6.93	6.32	5.06	3.75	3.75	0.00	3.55	3.54	5.00
2014	6.99	6.37	5.12	3.81	3.81	0.00	3.61	3.61	5.12
2015	7.04	6.43	5.18	3.87	3.87	0.00	3.67	3.67	5.26
2016	7.08	6.47	5.23	3.93	3.93	0.00	3.74	3.73	5.34
2017	7.10	6.50	5.28	3.99	3.99	0.00	3.80	3.79	5.42

The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

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The following notes provide basic assumption in preparing the natural gas price forecast.

Notes:

- 1990-1995 total prices are historical, obtained from QFER 7. 1996 is interpolated.
- Commodity: Nontransportation component of the California natural gas border price. Fuel costs are included.
- Transport: Weighted average interstate transport cost to deliver natural gas to the California border. Fuel is not included.
- ITCS: An instate charge to recover interstate transition charges resultant from implementation of FERC Order 636.
- SDG&E Margin: Distribution and administration costs associated with running the SDG&E pipeline system and transmission charges to SoCal Gas.
- PITCO/POPCO: Global settlement associated with PITCO and POPCO long term supply contracts.
- Regulatory: Includes balancing accounts, social, environmental and other regulatory accounts.

SDG&E Service
High Price Case
Residential Core Natural Gas Price Forecast

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total y	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
1990						6.43	
1991						6.05	
1992						6.45	
1993						6.85	
1994						6.89	
1995						6.44	
1996						6.66	
1997	2.09	0.25	0.03	4.24	0.00	0.27	6.88
1998	1.90	0.30	0.03	4.18	0.00	0.27	6.69
1999	1.77	0.30	0.03	4.20	0.00	0.27	6.59
2000	1.83	0.31	0.02	4.20	0.00	0.27	6.63
2001	1.89	0.32	0.02	4.23	0.00	0.27	6.73
2002	1.95	0.33	0.01	3.99	0.00	0.27	6.55
2003	2.00	0.35	0.01	4.03	0.00	0.27	6.67
2004	2.05	0.38	0.00	3.96	0.00	0.27	6.66
2005	2.10	0.39	0.00	3.98	0.00	0.27	6.74
2006	2.15	0.41	0.00	3.89	0.00	0.27	6.71
2007	2.20	0.47	0.00	3.82	0.00	0.27	6.76
2008	2.25	0.48	0.00	3.75	0.00	0.27	6.76
2009	2.30	0.50	0.00	3.75	0.00	0.27	6.82
2010	2.37	0.45	0.00	3.74	0.00	0.27	6.83
2011	2.43	0.46	0.00	3.69	0.00	0.27	6.85
2012	2.49	0.46	0.00	3.67	0.00	0.27	6.90
2013	2.56	0.47	0.00	3.64	0.00	0.27	6.93
2014	2.62	0.47	0.00	3.62	0.00	0.27	6.99
2015	2.68	0.48	0.00	3.61	0.00	0.27	7.04
2016	2.74	0.48	0.00	3.58	0.00	0.27	7.08
2017	2.81	0.49	0.00	3.54	0.00	0.27	7.10

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March 18, 1998

**SDG&E Service Area
High Price Case
Commercial Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
1990						6.61	
1991						6.13	
1992						6.67	
1993						6.87	
1994						6.71	
1995						6.32	
1996						6.25	
1997	2.09	0.25	0.03	3.70	0.00	0.12	6.19
1998	1.90	0.30	0.03	3.65	0.00	0.12	6.00
1999	1.77	0.30	0.03	3.66	0.00	0.12	5.89
2000	1.83	0.31	0.02	3.66	0.00	0.12	5.94
2001	1.89	0.32	0.02	3.69	0.00	0.12	6.04
2002	1.95	0.33	0.01	3.48	0.00	0.12	5.89
2003	2.00	0.35	0.01	3.52	0.00	0.12	6.00
2004	2.05	0.38	0.00	3.45	0.00	0.12	6.00
2005	2.10	0.39	0.00	3.47	0.00	0.12	6.08
2006	2.15	0.41	0.00	3.39	0.00	0.12	6.06
2007	2.20	0.47	0.00	3.33	0.00	0.12	6.12
2008	2.25	0.48	0.00	3.27	0.00	0.12	6.12
2009	2.30	0.50	0.00	3.27	0.00	0.12	6.19
2010	2.37	0.45	0.00	3.26	0.00	0.12	6.20
2011	2.43	0.46	0.00	3.21	0.00	0.12	6.22
2012	2.49	0.46	0.00	3.20	0.00	0.12	6.28
2013	2.56	0.47	0.00	3.17	0.00	0.12	6.32
2014	2.62	0.47	0.00	3.16	0.00	0.12	6.37
2015	2.68	0.48	0.00	3.15	0.00	0.12	6.43
2016	2.74	0.48	0.00	3.12	0.00	0.12	6.47
2017	2.81	0.49	0.00	3.08	0.00	0.12	6.50

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March 18, 1998

**SDG&E Service Area
High Price Case
Industrial Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total y	
	Commodity	Transport	ITCS	Margin	Pitco/Popco Regulator		
1990						6.40	
1991						6.13	
1992						6.67	
1993						6.44	
1994						5.53	
1995						5.31	
1996						5.02	
1997	2.09	0.25	0.03	2.23	0.00	0.12	4.72
1998	1.90	0.30	0.03	2.20	0.00	0.12	4.56
1999	1.77	0.30	0.03	2.21	0.00	0.12	4.44
2000	1.83	0.31	0.02	2.21	0.00	0.12	4.49
2001	1.89	0.32	0.02	2.23	0.00	0.12	4.57
2002	1.95	0.33	0.01	2.10	0.00	0.12	4.51
2003	2.00	0.35	0.01	2.12	0.00	0.12	4.60
2004	2.05	0.38	0.00	2.09	0.00	0.12	4.63
2005	2.10	0.39	0.00	2.09	0.00	0.12	4.70
2006	2.15	0.41	0.00	2.05	0.00	0.12	4.72
2007	2.20	0.47	0.00	2.01	0.00	0.12	4.80
2008	2.25	0.48	0.00	1.97	0.00	0.12	4.83
2009	2.30	0.50	0.00	1.98	0.00	0.12	4.89
2010	2.37	0.45	0.00	1.97	0.00	0.12	4.91
2011	2.43	0.46	0.00	1.94	0.00	0.12	4.95
2012	2.49	0.46	0.00	1.93	0.00	0.12	5.01
2013	2.56	0.47	0.00	1.91	0.00	0.12	5.06
2014	2.62	0.47	0.00	1.91	0.00	0.12	5.12
2015	2.68	0.48	0.00	1.90	0.00	0.12	5.18
2016	2.74	0.48	0.00	1.88	0.00	0.12	5.23
2017	2.81	0.49	0.00	1.86	0.00	0.12	5.28

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March 18, 1998

**SDG&E Service Area
High Price Case
Commercial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
1990						4.41	
1991						3.88	
1992						4.02	
1993						3.81	
1994						3.60	
1995						2.71	
1996						3.01	
1997	2.09	0.25	0.14	0.81	0.00	0.03	3.32
1998	1.90	0.30	0.13	0.78	0.00	0.03	3.15
1999	1.77	0.30	0.09	0.77	0.00	0.03	2.97
2000	1.83	0.31	0.02	0.77	0.00	0.03	2.97
2001	1.89	0.32	0.02	0.78	0.00	0.03	3.04
2002	1.95	0.33	0.01	0.77	0.00	0.03	3.09
2003	2.00	0.35	0.01	0.77	0.00	0.03	3.16
2004	2.05	0.38	0.00	0.76	0.00	0.03	3.22
2005	2.10	0.39	0.00	0.76	0.00	0.03	3.28
2006	2.15	0.41	0.00	0.75	0.00	0.03	3.33
2007	2.20	0.47	0.00	0.74	0.00	0.03	3.44
2008	2.25	0.48	0.00	0.73	0.00	0.03	3.49
2009	2.30	0.50	0.00	0.72	0.00	0.03	3.55
2010	2.37	0.45	0.00	0.71	0.00	0.03	3.57
2011	2.43	0.46	0.00	0.71	0.00	0.03	3.63
2012	2.49	0.46	0.00	0.70	0.00	0.03	3.69
2013	2.56	0.47	0.00	0.69	0.00	0.03	3.75
2014	2.62	0.47	0.00	0.69	0.00	0.03	3.81
2015	2.68	0.48	0.00	0.68	0.00	0.03	3.87
2016	2.74	0.48	0.00	0.67	0.00	0.03	3.93
2017	2.81	0.49	0.00	0.66	0.00	0.03	3.99

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March 18, 1998

**SDG&E Service Area
High Price Case
Industrial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total <i>y</i>	
	Commodity Transport	ITCS	Margin	Pitco/Popco	Regulator		
1990						4.41	
1991						3.88	
1992						4.02	
1993						3.96	
1994						3.90	
1995						2.74	
1996						3.03	
1997	2.09	0.25	0.14	0.81	0.00	0.03	3.32
1998	1.90	0.30	0.13	0.78	0.00	0.03	3.15
1999	1.77	0.30	0.09	0.77	0.00	0.03	2.97
2000	1.83	0.31	0.02	0.77	0.00	0.03	2.97
2001	1.89	0.32	0.02	0.78	0.00	0.03	3.04
2002	1.95	0.33	0.01	0.77	0.00	0.03	3.09
2003	2.00	0.35	0.01	0.77	0.00	0.03	3.16
2004	2.05	0.38	0.00	0.76	0.00	0.03	3.22
2005	2.10	0.39	0.00	0.76	0.00	0.03	3.28
2006	2.15	0.41	0.00	0.75	0.00	0.03	3.33
2007	2.20	0.47	0.00	0.74	0.00	0.03	3.44
2008	2.25	0.48	0.00	0.73	0.00	0.03	3.49
2009	2.30	0.50	0.00	0.72	0.00	0.03	3.55
2010	2.37	0.45	0.00	0.71	0.00	0.03	3.57
2011	2.43	0.46	0.00	0.71	0.00	0.03	3.63
2012	2.49	0.46	0.00	0.70	0.00	0.03	3.69
2013	2.56	0.47	0.00	0.69	0.00	0.03	3.75
2014	2.62	0.47	0.00	0.69	0.00	0.03	3.81
2015	2.68	0.48	0.00	0.68	0.00	0.03	3.87
2016	2.74	0.48	0.00	0.67	0.00	0.03	3.93
2017	2.81	0.49	0.00	0.66	0.00	0.03	3.99

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March 18, 1998

**SDG&E Service Area
High Price Case
Cogen Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
1990						3.71	
1991						3.25	
1992						3.20	
1993						3.33	
1994						3.04	
1995						2.18	
1996						2.53	
1997	2.09	0.25	0.14	0.49	0.00	0.10	3.07
1998	1.90	0.30	0.13	0.56	0.00	0.10	2.99
1999	1.77	0.30	0.09	0.50	0.00	0.10	2.76
2000	1.83	0.31	0.02	0.49	0.00	0.10	2.76
2001	1.89	0.32	0.02	0.49	0.00	0.10	2.82
2002	1.95	0.33	0.01	0.49	0.00	0.10	2.88
2003	2.00	0.35	0.01	0.47	0.00	0.10	2.94
2004	2.05	0.38	0.00	0.47	0.00	0.10	3.00
2005	2.10	0.39	0.00	0.47	0.00	0.10	3.06
2006	2.15	0.41	0.00	0.46	0.00	0.10	3.12
2007	2.20	0.47	0.00	0.45	0.00	0.10	3.22
2008	2.25	0.48	0.00	0.44	0.00	0.10	3.28
2009	2.30	0.50	0.00	0.44	0.00	0.10	3.34
2010	2.37	0.45	0.00	0.43	0.00	0.10	3.36
2011	2.43	0.46	0.00	0.43	0.00	0.10	3.42
2012	2.49	0.46	0.00	0.42	0.00	0.10	3.48
2013	2.56	0.47	0.00	0.42	0.00	0.10	3.55
2014	2.62	0.47	0.00	0.42	0.00	0.10	3.61
2015	2.68	0.48	0.00	0.41	0.00	0.10	3.67
2016	2.74	0.48	0.00	0.41	0.00	0.10	3.74
2017	2.81	0.49	0.00	0.40	0.00	0.10	3.80

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March 18, 1998

**SDG&E Service Area
High Price Case
Electricity Generation Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total y	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
1990						3.71	
1991						3.25	
1992						3.20	
1993						3.33	
1994						3.04	
1995						2.18	
1996						2.53	
1997	2.09	0.25	0.14	0.49	0.00	0.10	3.07
1998	1.90	0.30	0.13	0.56	0.00	0.10	2.99
1999	1.77	0.30	0.09	0.50	0.00	0.10	2.76
2000	1.83	0.31	0.02	0.49	0.00	0.10	2.76
2001	1.89	0.32	0.02	0.49	0.00	0.10	2.82
2002	1.95	0.33	0.01	0.49	0.00	0.10	2.88
2003	2.00	0.35	0.01	0.47	0.00	0.10	2.93
2004	2.05	0.38	0.00	0.47	0.00	0.10	3.00
2005	2.10	0.39	0.00	0.47	0.00	0.10	3.05
2006	2.15	0.41	0.00	0.46	0.00	0.10	3.11
2007	2.20	0.47	0.00	0.45	0.00	0.10	3.22
2008	2.25	0.48	0.00	0.44	0.00	0.10	3.27
2009	2.30	0.50	0.00	0.44	0.00	0.10	3.33
2010	2.37	0.45	0.00	0.43	0.00	0.10	3.35
2011	2.43	0.46	0.00	0.43	0.00	0.10	3.42
2012	2.49	0.46	0.00	0.42	0.00	0.10	3.48
2013	2.56	0.47	0.00	0.42	0.00	0.10	3.54
2014	2.62	0.47	0.00	0.42	0.00	0.10	3.61
2015	2.68	0.48	0.00	0.41	0.00	0.10	3.67
2016	2.74	0.48	0.00	0.41	0.00	0.10	3.73

2017	2.81	0.49	0.00	0.40	0.00	0.10	3.79
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March 18, 1998

**SDG&E Service Area
High Price Case
Electricity Generation Gas Price Forecast**

1995 \$ per mmBtu

Year	Commodity	Transportation		Total Price
		Interstate	Intrastate	
1990			2.11	3.60
1991			2.03	3.16
1992			2.10	3.10
1993			2.12	3.24
1994			2.09	2.98
1995			2.09	2.14
1996			1.39	2.50
1997	2.03	0.24	0.72	3.00
1998	1.86	0.29	0.77	2.92
1999	1.73	0.30	0.67	2.69
2000	1.79	0.30	0.60	2.69
2001	1.84	0.31	0.60	2.75
2002	1.90	0.32	0.59	2.81
2003	1.95	0.35	0.57	2.86
2004	2.00	0.37	0.56	2.93
2005	2.04	0.38	0.55	2.98
2006	2.09	0.40	0.55	3.04
2007	2.14	0.46	0.54	3.14
2008	2.19	0.47	0.53	3.19
2009	2.24	0.48	0.52	3.25
2010	2.31	0.44	0.52	3.27
2011	2.37	0.45	0.52	3.34
2012	2.43	0.45	0.51	3.40
2013	2.49	0.46	0.51	3.46
2014	2.55	0.46	0.50	3.52
2015	2.62	0.47	0.50	3.58
2016	2.68	0.47	0.49	3.64
2017	2.74	0.48	0.49	3.70

The High Price Case was prepared by the California Energy Commission for the ***1997 Fuels Report*** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SDG&E Service Area
High Price Case
Electricity Generation Gas Price Forecast**

Nominal \$ per mmBtu

Year	Commodity	Electricity Generation		Total Price	Cogen Gas Price	
		Transportation	Interstate			
Year	Commodity	Transportation	Interstate	Intrastate	Total Price	Cogen Gas Price
1990				1.84	3.13	3.13
1991				1.83	2.86	2.86
1992				1.95	2.88	2.88
1993				2.02	3.09	3.09
1994				2.04	2.90	2.90
1995				2.09	2.14	2.14
1996				1.42	2.55	2.55
1997	2.11		0.25	0.75	3.12	3.12
1998	1.98		0.31	0.82	3.10	3.10
1999	1.88		0.32	0.73	2.93	2.93
2000	2.00		0.34	0.67	3.01	3.01
2001	2.12		0.36	0.69	3.17	3.17
2002	2.25		0.38	0.70	3.33	3.33
2003	2.38		0.42	0.69	3.49	3.49
2004	2.51		0.47	0.70	3.68	3.68
2005	2.66		0.50	0.72	3.88	3.88
2006	2.82		0.53	0.74	4.09	4.09
2007	2.99		0.64	0.75	4.38	4.38
2008	3.17		0.68	0.76	4.61	4.61
2009	3.35		0.72	0.78	4.86	4.86
2010	3.57		0.69	0.81	5.07	5.07
2011	3.80		0.72	0.83	5.35	5.35
2012	4.04		0.75	0.85	5.64	5.64
2013	4.29		0.79	0.87	5.95	5.95
2014	4.55		0.82	0.90	6.27	6.27
2015	4.83		0.86	0.92	6.61	6.61
2016	5.12		0.90	0.94	6.97	6.97

2017	5.43	0.95	0.97	7.34	7.34
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The High Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

SDG&E Service Area
Low Price Case
End-Use Natural Gas Price Forecast Summary

1995 \$ per mcf

Year	Res	Core		Noncore				System	
		Comm	Indust	Comm	Indust	TEOR	Cogen	EG	Average
1990	6.43	6.61	6.40	4.41	4.41	0.00	3.71	3.71	5.06
1991	6.05	6.13	6.13	3.88	3.88	0.00	3.25	3.25	4.61
1992	6.45	6.67	6.67	4.02	4.02	0.00	3.20	3.20	4.71
1993	6.85	6.87	6.44	3.81	3.96	0.00	3.33	3.33	4.97
1994	6.89	6.71	5.53	3.60	3.90	0.00	3.04	3.04	4.88
1995	6.44	6.32	5.31	2.71	2.74	0.00	2.18	2.18	4.01
1996	6.65	6.24	5.00	3.00	3.02	0.00	2.53	2.53	4.40
1997	6.86	6.16	4.70	3.30	3.30	0.00	3.05	3.05	4.54
1998	6.35	5.66	4.21	2.81	2.81	0.00	2.63	2.63	4.05
1999	5.92	5.22	3.76	2.29	2.29	0.00	2.07	2.07	3.65
2000	5.93	5.24	3.79	2.26	2.26	0.00	2.05	2.05	3.61
2001	5.97	5.28	3.83	2.30	2.30	0.00	2.09	2.08	3.65
2002	5.78	5.11	3.74	2.33	2.33	0.00	2.12	2.11	3.32
2003	5.83	5.16	3.78	2.36	2.36	0.00	2.13	2.13	3.41
2004	5.77	5.12	3.77	2.38	2.38	0.00	2.16	2.16	3.36
2005	5.78	5.13	3.78	2.40	2.40	0.00	2.18	2.18	3.42
2006	5.70	5.06	3.75	2.41	2.41	0.00	2.20	2.20	3.35
2007	5.67	5.05	3.77	2.47	2.47	0.00	2.26	2.25	3.34
2008	5.62	5.00	3.76	2.48	2.48	0.00	2.28	2.27	3.32
2009	5.61	5.00	3.77	2.50	2.50	0.00	2.30	2.29	3.37
2010	5.55	4.95	3.73	2.48	2.48	0.00	2.29	2.28	3.35
2011	5.50	4.91	3.72	2.50	2.50	0.00	2.31	2.30	3.32
2012	5.48	4.89	3.72	2.52	2.52	0.00	2.32	2.32	3.33
2013	5.44	4.86	3.71	2.53	2.53	0.00	2.34	2.34	3.32
2014	5.42	4.85	3.71	2.55	2.55	0.00	2.36	2.36	3.32
2015	5.41	4.85	3.72	2.57	2.57	0.00	2.38	2.38	3.36
2016	5.41	4.84	3.74	2.60	2.60	0.00	2.42	2.41	3.38
2017	5.39	4.83	3.74	2.62	2.62	0.00	2.44	2.44	3.39

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

The Low Price Case was prepared by the California Energy Commission for the ***1997 Fuels Report*** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

The following notes provide basic assumption in preparing the natural gas price forecast.

Notes:

- 1990-1995 total prices are historical , obtained from QFER 7. 1996 is interpolated.
- Commodity: Nontransportation component of the California natural gas border price. Fuel costs are included.
- Transport: Weighted average interstate transport cost to deliver natural gas to the California border. Fuel is not included.
- ITCS An instate charge to recover interstate transition charges resultant from implementation of FERC Order 636.
- SDG&E Margin: Distribution and administration costs associated with running the SDG&E pipeline system and transmission charges to SoCal Gas.
- PITCO/POPCO: Global settlement associated with PITCO and POPCO long term supply contracts.
- Regulatory: Includes balancing accounts, social, environmental and other regulatory accounts.

**SDG&E Service Area
Low Price Case
Residential Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							6.43
1991							6.05
1992							6.45
1993							6.85
1994							6.89
1995							6.44
1996							6.65
1997	2.08	0.23	0.03	4.24	0.00	0.27	6.86
1998	1.58	0.26	0.03	4.21	0.00	0.27	6.35
1999	1.11	0.27	0.03	4.24	0.00	0.27	5.92
2000	1.13	0.29	0.03	4.21	0.00	0.27	5.93
2001	1.15	0.31	0.03	4.21	0.00	0.27	5.97
2002	1.19	0.30	0.02	3.99	0.00	0.27	5.78
2003	1.22	0.32	0.02	4.00	0.00	0.27	5.83
2004	1.24	0.33	0.01	3.91	0.00	0.27	5.77
2005	1.26	0.35	0.01	3.89	0.00	0.27	5.78
2006	1.28	0.36	0.01	3.78	0.00	0.27	5.70
2007	1.30	0.41	0.00	3.69	0.00	0.27	5.67
2008	1.32	0.42	0.00	3.60	0.00	0.27	5.62
2009	1.34	0.43	0.00	3.57	0.00	0.27	5.61
2010	1.36	0.40	0.00	3.51	0.00	0.27	5.55
2011	1.39	0.41	0.00	3.44	0.00	0.27	5.50
2012	1.41	0.41	0.00	3.39	0.00	0.27	5.48
2013	1.43	0.42	0.00	3.32	0.00	0.27	5.44
2014	1.45	0.42	0.00	3.28	0.00	0.27	5.42
2015	1.47	0.42	0.00	3.24	0.00	0.27	5.41
2016	1.51	0.43	0.00	3.20	0.00	0.27	5.41
2017	1.53	0.43	0.00	3.15	0.00	0.27	5.39

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent

potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SDG&E Service Area
Low Price Case
Commercial Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total	
	Commodity	Transport	ITCS	Margin	Pitco/Popco Regulator		
	y				y		
1990						6.61	
1991						6.13	
1992						6.67	
1993						6.87	
1994						6.71	
1995						6.32	
1996						6.24	
1997	2.08	0.23	0.03	3.70	0.00	0.12	6.16
1998	1.58	0.26	0.03	3.67	0.00	0.12	5.66
1999	1.11	0.27	0.03	3.69	0.00	0.12	5.22
2000	1.13	0.29	0.03	3.67	0.00	0.12	5.24
2001	1.15	0.31	0.03	3.67	0.00	0.12	5.28
2002	1.19	0.30	0.02	3.48	0.00	0.12	5.11
2003	1.22	0.32	0.02	3.49	0.00	0.12	5.16
2004	1.24	0.33	0.01	3.41	0.00	0.12	5.12
2005	1.26	0.35	0.01	3.39	0.00	0.12	5.13
2006	1.28	0.36	0.01	3.29	0.00	0.12	5.06
2007	1.30	0.41	0.00	3.22	0.00	0.12	5.05
2008	1.32	0.42	0.00	3.14	0.00	0.12	5.00
2009	1.34	0.43	0.00	3.11	0.00	0.12	5.00
2010	1.36	0.40	0.00	3.06	0.00	0.12	4.95
2011	1.39	0.41	0.00	3.00	0.00	0.12	4.91
2012	1.41	0.41	0.00	2.95	0.00	0.12	4.89
2013	1.43	0.42	0.00	2.90	0.00	0.12	4.86
2014	1.45	0.42	0.00	2.86	0.00	0.12	4.85
2015	1.47	0.42	0.00	2.83	0.00	0.12	4.85
2016	1.51	0.43	0.00	2.79	0.00	0.12	4.84
2017	1.53	0.43	0.00	2.75	0.00	0.12	4.83

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SDG&E Service Area
Low Price Case
Industrial Core Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
y							
1990							6.40
1991							6.13
1992							6.67
1993							6.44
1994							5.53
1995							5.31
1996							5.00
1997	2.08	0.23	0.03	2.23	0.00	0.12	4.70
1998	1.58	0.26	0.03	2.21	0.00	0.12	4.21
1999	1.11	0.27	0.03	2.23	0.00	0.12	3.76
2000	1.13	0.29	0.03	2.21	0.00	0.12	3.79
2001	1.15	0.31	0.03	2.22	0.00	0.12	3.83
2002	1.19	0.30	0.02	2.10	0.00	0.12	3.74
2003	1.22	0.32	0.02	2.10	0.00	0.12	3.78
2004	1.24	0.33	0.01	2.06	0.00	0.12	3.77
2005	1.26	0.35	0.01	2.05	0.00	0.12	3.78
2006	1.28	0.36	0.01	1.99	0.00	0.12	3.75
2007	1.30	0.41	0.00	1.94	0.00	0.12	3.77
2008	1.32	0.42	0.00	1.90	0.00	0.12	3.76
2009	1.34	0.43	0.00	1.88	0.00	0.12	3.77
2010	1.36	0.40	0.00	1.85	0.00	0.12	3.73
2011	1.39	0.41	0.00	1.81	0.00	0.12	3.72
2012	1.41	0.41	0.00	1.78	0.00	0.12	3.72
2013	1.43	0.42	0.00	1.75	0.00	0.12	3.71
2014	1.45	0.42	0.00	1.73	0.00	0.12	3.71
2015	1.47	0.42	0.00	1.71	0.00	0.12	3.72
2016	1.51	0.43	0.00	1.69	0.00	0.12	3.74

2017	1.53	0.43	0.00	1.66	0.00	0.12	3.74
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The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SDG&E Service Area
Low Price Case
Commercial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges			Total	
	Commodity	Transport	ITCS	Margin	Pitco/Popco		
1990						4.41	
1991						3.88	
1992						4.02	
1993						3.81	
1994						3.60	
1995						2.71	
1996						3.00	
1997	2.08	0.23	0.15	0.81	0.00	0.03	3.30
1998	1.58	0.26	0.14	0.79	0.00	0.03	2.81
1999	1.11	0.27	0.10	0.78	0.00	0.03	2.29
2000	1.13	0.29	0.03	0.78	0.00	0.03	2.26
2001	1.15	0.31	0.03	0.78	0.00	0.03	2.30
2002	1.19	0.30	0.02	0.78	0.00	0.03	2.33
2003	1.22	0.32	0.02	0.77	0.00	0.03	2.36
2004	1.24	0.33	0.01	0.76	0.00	0.03	2.38
2005	1.26	0.35	0.01	0.75	0.00	0.03	2.40
2006	1.28	0.36	0.01	0.74	0.00	0.03	2.41
2007	1.30	0.41	0.00	0.72	0.00	0.03	2.47
2008	1.32	0.42	0.00	0.71	0.00	0.03	2.48
2009	1.34	0.43	0.00	0.70	0.00	0.03	2.50
2010	1.36	0.40	0.00	0.69	0.00	0.03	2.48
2011	1.39	0.41	0.00	0.68	0.00	0.03	2.50
2012	1.41	0.41	0.00	0.67	0.00	0.03	2.52
2013	1.43	0.42	0.00	0.66	0.00	0.03	2.53
2014	1.45	0.42	0.00	0.65	0.00	0.03	2.55

2015	1.47	0.42	0.00	0.64	0.00	0.03	2.57
2016	1.51	0.43	0.00	0.63	0.00	0.03	2.60
2017	1.53	0.43	0.00	0.62	0.00	0.03	2.62

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SDG&E Service Area
Low Price Case
Commercial Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							4.41
1991							3.88
1992							4.02
1993							3.96
1994							3.90
1995							2.74
1996							3.02
1997	2.08	0.23	0.15	0.81	0.00	0.03	3.30
1998	1.58	0.26	0.14	0.79	0.00	0.03	2.81
1999	1.11	0.27	0.10	0.78	0.00	0.03	2.29
2000	1.13	0.29	0.03	0.78	0.00	0.03	2.26
2001	1.15	0.31	0.03	0.78	0.00	0.03	2.30
2002	1.19	0.30	0.02	0.78	0.00	0.03	2.33
2003	1.22	0.32	0.02	0.77	0.00	0.03	2.36
2004	1.24	0.33	0.01	0.76	0.00	0.03	2.38
2005	1.26	0.35	0.01	0.75	0.00	0.03	2.40
2006	1.28	0.36	0.01	0.74	0.00	0.03	2.41
2007	1.30	0.41	0.00	0.72	0.00	0.03	2.47
2008	1.32	0.42	0.00	0.71	0.00	0.03	2.48
2009	1.34	0.43	0.00	0.70	0.00	0.03	2.50
2010	1.36	0.40	0.00	0.69	0.00	0.03	2.48
2011	1.39	0.41	0.00	0.68	0.00	0.03	2.50
2012	1.41	0.41	0.00	0.67	0.00	0.03	2.52
2013	1.43	0.42	0.00	0.66	0.00	0.03	2.53

2014	1.45	0.42	0.00	0.65	0.00	0.03	2.55
2015	1.47	0.42	0.00	0.64	0.00	0.03	2.57
2016	1.51	0.43	0.00	0.63	0.00	0.03	2.60
2017	1.53	0.43	0.00	0.62	0.00	0.03	2.62

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SDG&E Service Area
Low Price Case
Cogen Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulator	
1990							3.71
1991							3.25
1992							3.20
1993							3.33
1994							3.04
1995							2.18
1996							2.53
1997	2.08	0.23	0.15	0.49	0.00	0.10	3.05
1998	1.58	0.26	0.14	0.54	0.00	0.10	2.63
1999	1.11	0.27	0.10	0.49	0.00	0.10	2.07
2000	1.13	0.29	0.03	0.50	0.00	0.10	2.05
2001	1.15	0.31	0.03	0.50	0.00	0.10	2.09
2002	1.19	0.30	0.02	0.49	0.00	0.10	2.12
2003	1.22	0.32	0.02	0.47	0.00	0.10	2.13
2004	1.24	0.33	0.01	0.47	0.00	0.10	2.16
2005	1.26	0.35	0.01	0.46	0.00	0.10	2.18
2006	1.28	0.36	0.01	0.45	0.00	0.10	2.20
2007	1.30	0.41	0.00	0.44	0.00	0.10	2.26
2008	1.32	0.42	0.00	0.43	0.00	0.10	2.28
2009	1.34	0.43	0.00	0.42	0.00	0.10	2.30
2010	1.36	0.40	0.00	0.42	0.00	0.10	2.29
2011	1.39	0.41	0.00	0.41	0.00	0.10	2.31

2012	1.41	0.41	0.00	0.40	0.00	0.10	2.32
2013	1.43	0.42	0.00	0.40	0.00	0.10	2.34
2014	1.45	0.42	0.00	0.39	0.00	0.10	2.36
2015	1.47	0.42	0.00	0.39	0.00	0.10	2.38
2016	1.51	0.43	0.00	0.38	0.00	0.10	2.42
2017	1.53	0.43	0.00	0.38	0.00	0.10	2.44

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SDG&E Service Area
Low Price Case
Electricity Generation Noncore Natural Gas Price Forecast**

1995 \$ per mcf

Year	Interstate Charges		SDG&E Instate Charges				Total
	Commodity	Transport	ITCS	Margin	Pitco/Popco	Regulatory	
1990							3.71
1991							3.25
1992							3.20
1993							3.33
1994							3.04
1995							2.18
1996							2.53
1997	2.08	0.23	0.15	0.49	0.00	0.10	3.05
1998	1.58	0.26	0.14	0.54	0.00	0.10	2.63
1999	1.11	0.27	0.10	0.49	0.00	0.10	2.07
2000	1.13	0.29	0.03	0.50	0.00	0.10	2.05
2001	1.15	0.31	0.03	0.50	0.00	0.10	2.08
2002	1.19	0.30	0.02	0.49	0.00	0.10	2.11
2003	1.22	0.32	0.02	0.47	0.00	0.10	2.13
2004	1.24	0.33	0.01	0.47	0.00	0.10	2.16
2005	1.26	0.35	0.01	0.46	0.00	0.10	2.18
2006	1.28	0.36	0.01	0.45	0.00	0.10	2.20
2007	1.30	0.41	0.00	0.44	0.00	0.10	2.25
2008	1.32	0.42	0.00	0.43	0.00	0.10	2.27
2009	1.34	0.43	0.00	0.42	0.00	0.10	2.29
2010	1.36	0.40	0.00	0.42	0.00	0.10	2.28

2011	1.39	0.41	0.00	0.41	0.00	0.10	2.30
2012	1.41	0.41	0.00	0.40	0.00	0.10	2.32
2013	1.43	0.42	0.00	0.40	0.00	0.10	2.34
2014	1.45	0.42	0.00	0.39	0.00	0.10	2.36
2015	1.47	0.42	0.00	0.39	0.00	0.10	2.38
2016	1.51	0.43	0.00	0.38	0.00	0.10	2.41
2017	1.53	0.43	0.00	0.38	0.00	0.10	2.44

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SDG&E Service Area
Low Price Case
Electricity Generation Gas Price Forecast**

1995 \$ per mmBtu

Year	Commodity	Transportation		Total Price
		Interstate	Intrastate	
1990			2.11	3.60
1991			2.03	3.16
1992			2.10	3.10
1993			2.12	3.24
1994			2.09	2.98
1995			2.09	2.14
1996			1.39	2.50
1997	2.03	0.22	0.72	2.98
1998	1.54	0.26	0.77	2.56
1999	1.08	0.26	0.68	2.02
2000	1.10	0.28	0.62	2.00
2001	1.13	0.30	0.61	2.03
2002	1.16	0.30	0.60	2.06
2003	1.19	0.31	0.58	2.08
2004	1.21	0.33	0.57	2.10
2005	1.23	0.34	0.56	2.13
2006	1.25	0.35	0.55	2.14
2007	1.26	0.40	0.53	2.20
2008	1.29	0.41	0.52	2.22
2009	1.31	0.42	0.51	2.24
2010	1.33	0.39	0.51	2.23

2011	1.35	0.40	0.50	2.25
2012	1.37	0.40	0.49	2.26
2013	1.39	0.41	0.48	2.28
2014	1.41	0.41	0.48	2.30
2015	1.44	0.41	0.47	2.32
2016	1.47	0.42	0.47	2.35
2017	1.49	0.42	0.46	2.38

The Low Price Case was prepared by the California Energy Commission for the **1997 Fuels Report** to represent an extreme outlook of long term natural gas price and supply. The results represent potential outcomes that could occur at a given time, but could not be sustainable through the forecast period.

March 18, 1998

**SDG&E Service Area
Low Price Case
Electricity Generation Gas Price Forecast**

Nominal \$ per mmBtu

Year	Commodity	Electricity Generation		Total Price	Cogen Gas Price
		Transportation	Interstate Intradate		
1990			1.84	3.13	3.13
1991			1.83	2.86	2.86
1992			1.95	2.88	2.88
1993			2.02	3.09	3.09
1994			2.04	2.90	2.90
1995			2.09	2.14	2.14
1996			1.42	2.55	2.55
1997	2.11	0.23	0.75	3.09	3.09
1998	1.64	0.27	0.82	2.72	2.72
1999	1.18	0.28	0.74	2.20	2.20
2000	1.23	0.32	0.69	2.24	2.24
2001	1.30	0.34	0.70	2.34	2.34
2002	1.38	0.35	0.71	2.44	2.44
2003	1.45	0.38	0.71	2.53	2.53
2004	1.52	0.41	0.72	2.65	2.65
2005	1.60	0.44	0.73	2.77	2.77
2006	1.68	0.47	0.74	2.89	2.89
2007	1.76	0.56	0.74	3.06	3.06
2008	1.86	0.60	0.75	3.20	3.20

2009	1.95	0.63	0.76	3.35	3.35
2010	2.06	0.61	0.78	3.45	3.45
2011	2.17	0.64	0.80	3.60	3.60
2012	2.28	0.67	0.82	3.76	3.76
2013	2.40	0.70	0.83	3.93	3.93
2014	2.52	0.73	0.85	4.10	4.10
2015	2.65	0.76	0.87	4.29	4.29
2016	2.81	0.79	0.90	4.50	4.50
2017	2.96	0.83	0.92	4.71	4.71

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